

Request — Noble Ferrell

Access DB# 131238

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sabika Oozy Examiner #: 74141 Date: 8/29/04  
Art Unit: 1616 Phone Number 30 20622 Serial Number: 10/616,950  
Mail Box and Bldg/Room Location: 4C70 Room 4A-45 Results Format Preferred (circle):  PAPER  DISK  E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Fungicidal use

Inventors (please provide full names): ROSE, ING, et al

Earliest Priority Filing Date: 7/14/2002 60/374,932

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for the compound and its use for controlling diseases in crop plants as barley & wheat.

Specific control of Pseudocercosporella herpotrichoides is claimed.

Please see specific 5-bromo benzophenone in cl2 + 5

Thank You.

\*\*\*\*\*  
SEARCHER USE ONLY  
Searcher: Noble Type of Search: NA Sequence (#) Vendors and cost where applicable: STN 299  
Searcher Phone #:  AA Sequence (#):  Dialog:   
Searcher Location:  Structure (#): 2 Questel/Orbit:   
Date Searcher Picked Up: 9/1/04 Bibliographic:  Dr.Link:   
Date Completed: 9/1/04 Litigation:  Lexis/Nexis:   
Searcher Prep & Review Time: 20 Fulltext:  Sequence Systems:   
Searcher Prep Time:  Patent Family:  WWW/Internet:   
Type Time: 40 Other:  Other (specify):   
\*\*\*\*\*

=> d his

(FILE 'HOME' ENTERED AT 11:08:00 ON 01 SEP 2004)

FILE 'HCAPLUS' ENTERED AT 11:08:41 ON 01 SEP 2004  
L1 1 US20040063793/PN

FILE 'REGISTRY' ENTERED AT 11:08:55 ON 01 SEP 2004

FILE 'HCAPLUS' ENTERED AT 11:08:58 ON 01 SEP 2004  
L2 TRA L1 1- RN : 5 TERMS

FILE 'REGISTRY' ENTERED AT 11:08:58 ON 01 SEP 2004  
L3 5 SEA L2

FILE 'WPIX' ENTERED AT 11:09:02 ON 01 SEP 2004  
L4 1 US20040063793/PN

FILE 'REGISTRY' ENTERED AT 11:18:02 ON 01 SEP 2004  
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L6 STR L5  
L7 4 L6 CSS  
L8 88 L6 CSS FULL  
SAVE TEMP QAZI950FUL/A L8  
L9 67 L8 AND C19H21BRO5

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E E3+ALL  
E PSEUDOCERCOSPORELLA/CT  
E E8+ALL  
L12 223 PSEUDOCERCOSPORELLA HERPOTRICHOIDES+NT/CT  
E PSEUDOCERCOSPORELLA/CT  
E E3+ALL  
L13 238 PSEUDOCERCOSPORELLA+NT/CT  
L14 28 L10-11 AND (PY<=2002 OR PRY<=2002 OR AY<=2002 OR PD<20020711 OR  
L15 0 L14 AND L13  
L16 226 (P OR PSEUDOCERCOSPORELLA) (1A) HERPOTRICHOIDES  
L17 1 L14 AND L16  
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E E3+ALL  
L18 53363 WHEAT +OLD,NT/CT  
E BARLEY/CT  
E E3+ALL  
L19 29269 BARLEY+NT/CT  
E HORDEUM/CT  
E E3+ALL  
L20 26 L14 AND AGROCHEM?/CC,SX  
E TRITICUM/CT  
E E3+ALL  
L21 0 (L14 OR L20) AND L18-19  
E CROP/CT  
E E6+ALL  
L22 2239 "CROP (PLANT) "/CT  
E PLANT/CT  
E E3+ALL  
L23 24717 PLANT/CT  
L24 19513 EMBRYOPHYTA/CW

L25 2522 L23-24 (L) CROP?  
 L26 0 (L14 OR L20) AND (L22 OR L25)

FILE 'CABA' ENTERED AT 12:10:48 ON 01 SEP 2004  
 L27 0 L8-9

FILE 'AGRICOLA' ENTERED AT 12:11:10 ON 01 SEP 2004  
 L28 0 L8-9

FILE 'STNGUIDE' ENTERED AT 12:11:29 ON 01 SEP 2004

FILE 'EMBASE' ENTERED AT 12:16:35 ON 01 SEP 2004  
 L29 0 L8-9

FILE 'BIOSIS' ENTERED AT 12:17:16 ON 01 SEP 2004  
 L30 0 L8-9

FILE 'HCAPLUS' ENTERED AT 12:47:36 ON 01 SEP 2004  
 L31 27 L14 NOT L17

=> b hcap  
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FILE COVERS 1907 - 1 Sep 2004 VOL 141 ISS 10  
 FILE LAST UPDATED: 31 Aug 2004 (20040831/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

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L31 ANSWER 1 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2004:534158 HCAPLUS  
 DN 141:71349  
 ED Entered STN: 02 Jul 2004  
 TI Method for the production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with an acid chloride  
 IN Maywald, Volker; Hoffmann, Nico; Keil, Michael; Vogelbacher, Uwe Josef; Wevers, Jan Hendrik  
 PA BASF Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 19 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German

=> b reg  
FILE 'REGISTRY' ENTERED AT 12:18:50 ON 01 SEP 2004  
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STRUCTURE FILE UPDATES: 31 AUG 2004 HIGHEST RN 736193-62-7  
DICTIONARY FILE UPDATES: 31 AUG 2004 HIGHEST RN 736193-62-7

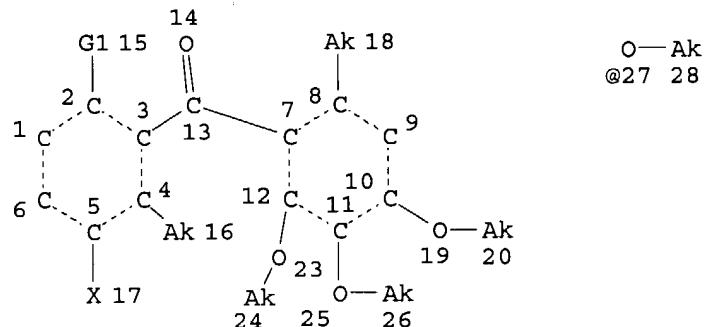
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d que stat 18  
L6 STR



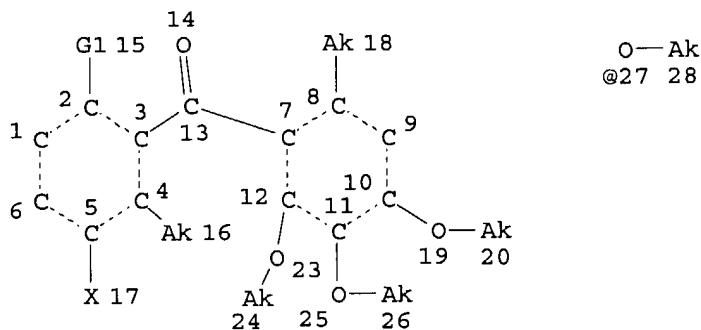
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
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NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE  
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L6 STR



VAR G1=OH/27  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RSPEC 1 7  
 NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE  
 L8 88 SEA FILE=REGISTRY CSS FUL L6  
 L9 67 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND C19H21BRO5

=> d his

(FILE 'HOME' ENTERED AT 11:08:00 ON 01 SEP 2004)  
 FILE 'HCAPLUS' ENTERED AT 11:08:41 ON 01 SEP 2004  
 L1 1 US20040063793/PN  
 FILE 'REGISTRY' ENTERED AT 11:08:55 ON 01 SEP 2004  
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 L2 TRA L1 1- RN : 5 TERMS  
 FILE 'REGISTRY' ENTERED AT 11:08:58 ON 01 SEP 2004  
 L3 5 SEA L2  
 FILE 'WPIX' ENTERED AT 11:09:02 ON 01 SEP 2004  
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 L5 STR  
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 L9 67 L8 AND C19H21BRO5  
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 E PSEUDOCERCOSPORELLA/CT  
 E E3+ALL

L12            223 PSEUDOCERCOSPORELLA/CT  
                   E E8+ALL  
 L12            223 PSEUDOCERCOSPORELLA HERPOTRICHOIDES+NT/CT  
                   E PSEUDOCERCOSPORELLA/CT  
                   E E3+ALL  
 L13            238 PSEUDOCERCOSPORELLA+NT/CT  
 L14            28 L10-11 AND (PY<=2002 OR PRY<=2002 OR AY<=2002 OR PD<20020711 OR  
 L15            0 L14 AND L13  
 L16            226 (P OR PSEUDOCERCOSPORELLA) (1A) HERPOTRICHOIDES  
 L17            1 L14 AND L16  
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                   E HORDEUM/CT  
                   E E3+ALL  
 L20            26 L14 AND AGROCHEM?/CC,SX  
                   E TRITICUM/CT  
                   E E3+ALL  
 L21            0 (L14 OR L20) AND L18-19  
                   E CROP/CT  
                   E E6+ALL  
 L22            2239 "CROP (PLANT) "/CT  
                   E PLANT/CT  
                   E E3+ALL  
 L23            24717 PLANT/CT  
 L24            19513 EMBRYOPHYTA/CW  
 L25            2522 L23-24 (L) CROP?  
 L26            0 (L14 OR L20) AND (L22 OR L25)

FILE 'CABA' ENTERED AT 12:10:48 ON 01 SEP 2004

L27            0 L8-9

FILE 'AGRICOLA' ENTERED AT 12:11:10 ON 01 SEP 2004

L28            0 L8-9

FILE 'STNGUIDE' ENTERED AT 12:11:29 ON 01 SEP 2004

FILE 'EMBASE' ENTERED AT 12:16:35 ON 01 SEP 2004

L29            0 L8-9

FILE 'BIOSIS' ENTERED AT 12:17:16 ON 01 SEP 2004

L30            0 L8-9

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FILE 'HCAPLUS' ENTERED AT 11:08:58 ON 01 SEP 2004  
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FILE 'REGISTRY' ENTERED AT 11:08:58 ON 01 SEP 2004  
L3 5 SEA L2

FILE 'WPIX' ENTERED AT 11:09:02 ON 01 SEP 2004  
L4 1 US20040063793/PN

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FILE 'HCAPLUS' ENTERED AT 11:09:24 ON 01 SEP 2004  
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FILE LAST UPDATED: 31 Aug 2004 (20040831/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d all 11

L1 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 2004:60223 HCAPLUS  
DN 140:106945  
ED Entered STN: 26 Jan 2004  
TI Use of benzophenones as fungicides for controlling Pseudocercosporaella herpotrichoides  
IN Gewehr, Markus; Rose, Ingo; Mueller, Bernd; Ammermann, Eberhard; Orth, Ann; Van Tuyl Cotter, Henry  
PA BASF Aktiengesellschaft, Germany  
SO PCT Int. Appl., 17 pp.  
CODEN: PIXXD2  
DT Patent  
LA German  
IC ICM A01N035-04  
CC 5-2 (Agrochemical Bioregulators)

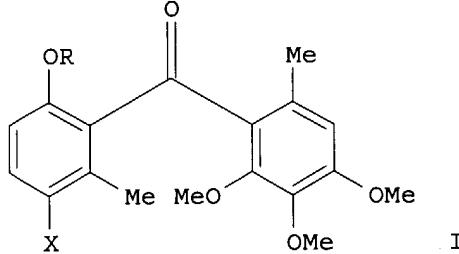
## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004006675	A1	20040122	WO 2003-EP7255	20030707
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004063793	A1	20040401	US 2003-616950	20030711 <--
PRAI	US 2002-394932P	P	20020711		

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004006675	ICM	A01N035-04
OS	MARPAT	140:106945

GI



AB Benzophenones (I, R = H or C1-C4 alkyl; X = F, Cl, Br) are useful as fungicides for controlling *Pseudocercospora* *herpotrichoides* in cultivated plants. Thus, the incidence of eyespot disease in wheat inoculated with *P. herpotrichoides* was 0-25% when plants had been treated with 63 ppm I (R = Me or H; X = Br or Cl), whereas 100% of untreated plants were infected.

ST benzophenone fungicide *Pseudocercospora* control

IT Fungicides

IT *Hordeum vulgare*  
*Oculimacula yallundae*  
 (benzophenones as fungicides for controlling *Pseudocercospora* *herpotrichoides* in crops)

IT *Triticum aestivum*  
 (disease, eyespot; benzophenones as fungicides for controlling *Pseudocercospora* *herpotrichoides* in crops)

IT 220899-03-6 220900-12-9 252955-10-5 252955-12-7  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (as fungicide for controlling *Pseudocercospora* *herpotrichoides* in crops)

IT 252955-11-6D, derivs.  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as fungicides for controlling *Pseudocercosporaella herpotrichoides* in crops)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) American Cyanamid Co; EP 0897904 A 1999 HCPLUS
- (2) American Cyanamid Co; EP 1023835 A 2000 HCPLUS
- (3) Leadbitter, N; WO 0180643 A 2001 HCPLUS
- (4) Novartis Erfind Verwalt GmbH; WO 0072677 A 2000 HCPLUS

=> b reg

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STRUCTURE FILE UPDATES: 30 AUG 2004 HIGHEST RN 736108-36-4

DICTIONARY FILE UPDATES: 30 AUG 2004 HIGHEST RN 736108-36-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d ide l3 tot

L3 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN

RN 252955-12-7 REGISTRY

CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-(3-Chloro-6-hydroxy-2-methylphenyl)-1-(2,3,4-trimethoxy-6-methylphenyl)methanone

FS 3D CONCORD

MF C18 H19 Cl O5

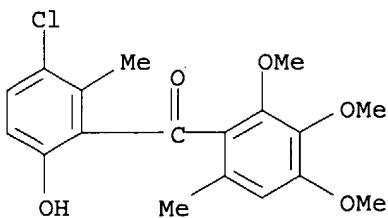
CI COM

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAplus document type: Patent

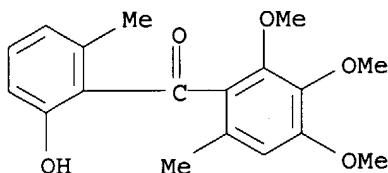
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1907 TO DATE)  
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

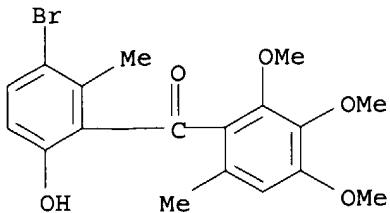
L3 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 252955-11-6 REGISTRY  
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 FS 3D CONCORD  
 MF C18 H20 O5  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

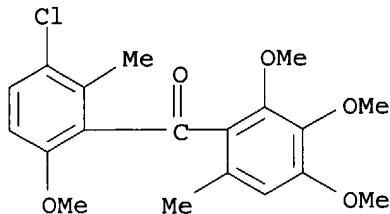
L3 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 252955-10-5 REGISTRY  
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 FS 3D CONCORD  
 MF C18 H19 Br O5  
 CI COM  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 220900-12-9 REGISTRY  
 CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C19 H21 Cl O5  
 CI COM  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL  
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 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)

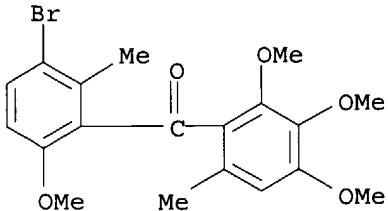


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3 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 220899-03-6 REGISTRY  
 CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Metrafenone  
 FS 3D CONCORD  
 MF C19 H21 Br O5  
 CI COM  
 SR CA

LC STN Files: CA, CAPLUS, CASREACT, CBNB, TOXCENTER, USPAT2, USPATFULL  
 DT.CA CAplus document type: Journal; Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT  
     (Reactant or reagent); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological  
     study); USES (Uses)  
 RL.NP Roles from non-patents: BIOL (Biological study); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

14 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> b wpix  
 FILE 'WPIX' ENTERED AT 11:09:40 ON 01 SEP 2004  
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FILE LAST UPDATED: 26 AUG 2004 <20040826/UP>  
 MOST RECENT DERWENT UPDATE: 200455 <200455/DW>  
 DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

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     FOR FURTHER DETAILS: [<<<](http://www.thomsonderwent.com/dwpifv)

>>> NEW DISPLAY FORMAT HITSTR ADDED ALLOWING DISPLAY OF  
     HIT STRUCTURES WITHIN THE BIBLIOGRAPHIC DOCUMENT <<<

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L4 ANSWER 1 OF 1 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN  
 AN 2004-143018 [14] WPIX  
 DNC C2004-057621  
 TI Controlling Pseudocercosporella herpotrichoides in crop plants, especially

wheat or barley, comprises use of hepta-substituted benzophenone derivatives.

DC C03  
 IN AMMERMANN, E; COTTER, H V T; GEWEHR, M; MULLER, B; ORTH, A; ROSE, I; MUELLER, B; VAN TUYL COTTER, H  
 PA (AMME-I) AMMERMANN E; (COTT-I) COTTER H V T; (GEWE-I) GEWEHR M; (MULL-I) MULLER B; (ORTH-I) ORTH A; (ROSE-I) ROSE I; (BADI) BASF AG  
 CYC 105  
 PI WO 2004006675 A1 20040122 (200414)\* GE 17 A01N035-04  
 RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS  
 LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW  
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK  
 DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR  
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH  
 PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN  
 YU ZA ZM ZW  
 US 2004063793 A1 20040401 (200425) A01N035-00 <--  
 AU 2003250897 A1 20040202 (200450) A01N035-04  
 ADT WO 2004006675 A1 WO 2003-EP7255 20030707; US 2004063793 A1 Provisional US  
 2002-394932P 20020711, US 2003-616950 20030711; AU 2003250897 A1 AU  
 2003-250897 20030707  
 FDT AU 2003250897 A1 Based on WO 2004006675  
 PRAI US 2002-394932P 20020711; US 2003-616950 20030711  
 IC ICM A01N035-00; A01N035-04  
 AB WO2004006675 A UPAB: 20040226  
 NOVELTY - The use of 2',6-dimethyl-5-halo-2,4',5',6'-tetramethoxy- or 2-hydroxy-4',5',6'-trimethoxy-benzophenones (I) for controlling Pseudocercosporella herpotrichoides in crop plants is new.  
 DETAILED DESCRIPTION - The use of 2',6-dimethyl-5-halo-2,4',5',6'-tetramethoxy- or 2-hydroxy-4',5',6'-trimethoxy-benzophenones of formula (I) for controlling Pseudocercosporella herpotrichoides in crop plants is new.  
 R = H or 1-4C alkyl; and  
 Hal = F, Cl or Br.  
 ACTIVITY - Fungicide.  
 In tests with wheat seedlings, pre-treatment with 5-bromo-2',6-dimethyl-2,4',5',6'-tetramethoxy-benzophenone (Ia) at a concentration of 63 ppm before contact with Pseudocercosporella herpotrichoides spores reduced the degree of infection 40 days later from 100% (in untreated controls) to 0-25%.  
 MECHANISM OF ACTION - None given in the source material.  
 USE - Especially for controlling Pseudocercosporella herpotrichoides in wheat or barley (claimed).  
 ADVANTAGE - The known fungicides (I) (described in EP727141-A, EP897141-A and EP967196-A) have been found to show excellent activity against Pseudocercosporella herpotrichoides  
 Dwg.0/0  
 FS CPI  
 FA AB; GI; DCN  
 MC CPI: C10-E02; C10-F02; C14-A04

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of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 1 Sep 2004 VOL 141 ISS 10  
 FILE LAST UPDATED: 31 Aug 2004 (20040831/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

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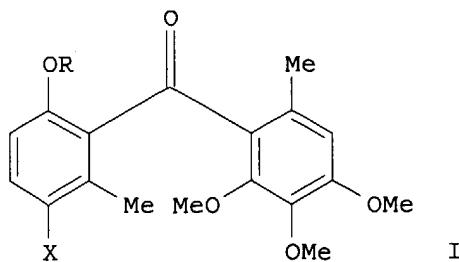
L17 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2004:60223 HCAPLUS  
 DN 140:106945  
 ED Entered STN: 26 Jan 2004  
 TI Use of benzophenones as fungicides for controlling  
*Pseudocercospora herpotrichoides*  
 IN Gewehr, Markus; Rose, Ingo; Mueller, Bernd; Ammermann, Eberhard; Orth,  
 Ann; Van Tuyl Cotter, Henry  
 PA BASF Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 17 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 IC ICM A01N035-04  
 CC 5-2 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004006675	A1	20040122	WO 2003-EP7255	20030707 <--
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004063793	A1	20040401	US 2003-616950	20030711 <--
PRAI	US 2002-394932P	P	20020711		<--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004006675	ICM	A01N035-04
OS	MARPAT	140:106945
GI		



AB Benzophenones (I, R = H or C1-C4 alkyl; X = F, Cl, Br) are useful as fungicides for controlling *Pseudocercosporella herpotrichoides* in cultivated plants. Thus, the incidence of eyespot disease in wheat inoculated with *P. herpotrichoides* was 0-25% when plants had been treated with 63 ppm I (R = Me or H; X = Br or Cl), whereas 100% of untreated plants were infected.

ST benzophenone fungicide *Pseudocercosporella* control

IT Fungicides

*Hordeum vulgare*

*Oculimacula yallundae*

(benzophenones as fungicides for controlling  
***Pseudocercosporella herpotrichoides*** in crops)

IT *Triticum aestivum*

(disease, eyespot; benzophenones as fungicides for controlling  
***Pseudocercosporella herpotrichoides*** in crops)

IT 220899-03-6 220900-12-9 252955-10-5

252955-12-7

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(as fungicide for controlling ***Pseudocercosporella herpotrichoides*** in crops)

IT 252955-11-6D, derivs.

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(as fungicides for controlling ***Pseudocercosporella herpotrichoides*** in crops)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

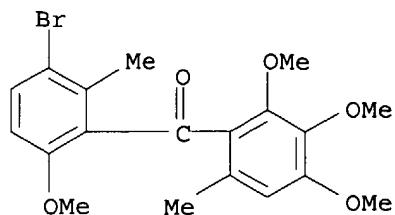
- (1) American Cyanamid Co; EP 0897904 A 1999 HCPLUS
- (2) American Cyanamid Co; EP 1023835 A 2000 HCPLUS
- (3) Leadbitter, N; WO 0180643 A 2001 HCPLUS
- (4) Novartis Erfind Verwalt GmbH; WO 0072677 A 2000 HCPLUS

IT 220899-03-6

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(as fungicide for controlling ***Pseudocercosporella herpotrichoides*** in crops)

RN 220899-03-6 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



IT 220899-03-6 220900-12-9 252955-10-5  
252955-12-7

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
(Biological study); USES (Uses)  
(as fungicide for controlling **Pseudocercosporella**  
**herpotrichoides** in crops)

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IC ICM C07C045-46

ICS C07C045-81; C07C049-84; C07C051-60; C07C051-363

CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

FAN.CNT 1

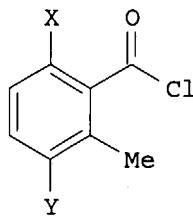
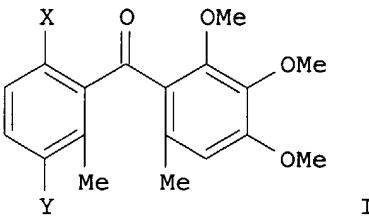
PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
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		RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
PRAI DE	2002-10258669	A	20021213	<--	

CLASS

PATENT NO.		CLASS	PATENT FAMILY CLASSIFICATION CODES	
WO	2004054953	ICM	C07C045-46	
		ICS	C07C045-81; C07C049-84; C07C051-60; C07C051-363	

OS CASREACT 141:71349

GI



AB Benzophenones [I; X = Cl, OH, OMe, C1-6 alkylcarbonyloxy; Y = Cl, Br] were prepared by reacting an acid chloride II (X, Y as above) with 3,4,5-trimethoxytoluene. The reaction is carried out (1) in the presence of an aromatic diluent selected from chlorobenzene, benzotrifluoride, or nitrobenzene, (2) in the presence of 0.01-0.02 mol% Fe catalyst (based on the acid chloride), and (3) at a temperature between 60.degree. to a b.p. of the diluent. Thus, a solution of 5-bromo-2-methoxy-6-methylbenzoyl chloride and anhydrous FeCl<sub>3</sub> in chlorobenzene was dosed to a solution of 3,4,5-trimethoxytoluene in chlorobenzene for 4 h at 145.degree. followed by stirring for 2 h at room temperature to give 99% (5-bromo-2-methoxy-6-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl) methanone with a selectivity of 99.4%.

ST bromomethoxymethylphenyltrimethoxymethylphenylmethanone prepn; methanone bromomethoxymethylphenyl trimethoxymethylphenyl prepn; trimethoxytoluene bromomethoxymethylbenzoyl chloride Friedel Crafts acylation iron chloride

IT Friedel-Crafts reaction

(Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride, for production of benzophenones by)

IT Friedel-Crafts reaction catalysts

(method for production of benzophenones by Friedel-Crafts acylation of

3,4,5-trimethoxytoluene with acid chloride)

IT 7705-08-0, Iron chloride, uses  
 RL: CAT (Catalyst use); USES (Uses)  
 (Friedel-Crafts acylation catalyst; method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

IT 98-08-8, Benzotrifluoride 98-95-3, Nitrobenzene, uses 108-90-7, Chlorobenzene, uses  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (diluent; for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

IT 220899-03-6P  
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)  
 (method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

IT 6161-65-5, Benzoic acid, 2-methoxy-6-methyl- 6443-69-2, 3,4,5-Trimethoxytoluene  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

IT 220901-25-7P 712273-62-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

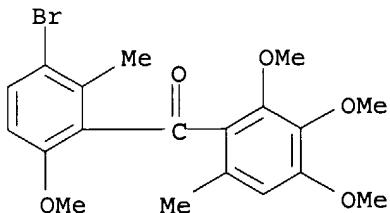
RE

(1) American Cyanamid Co; EP 0897904 A 1999 HCPLUS  
 (2) Basf Ag; WO 0151440 A 2001 HCPLUS  
 (3) Basf Ag; EP 1295877 A 2003 HCPLUS

IT 220899-03-6P  
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)  
 (method for production of benzophenones by Friedel-Crafts acylation of 3,4,5-trimethoxytoluene with acid chloride)

RN 220899-03-6 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 2 OF 27 HCPLUS COPYRIGHT 2004 ACS on STN  
 AN 2004:451736 HCPLUS  
 DN 140:419309  
 ED Entered STN: 04 Jun 2004  
 TI Synergistic fungicidal mixtures for rice containing metrafenone and a triazolopyrimidine derivative  
 IN Tormo I Blasco, Jordi; Grote, Thomas; Ammermann, Eberhard; Stierl, Reinhard; Strathmann, Siegfried; Schoefl, Ulrich

PA BASF Aktiengesellschaft, Germany

SO PCT Int. Appl., 14 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM A01N035-00

CC 5-2 (Agrochemical Bioregulators)

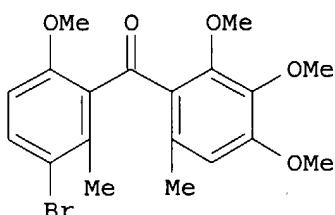
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004045288	A2	20040603	WO 2003-EP12769	20031114 <--
	WO 2004045288	A3	20040729		
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	PRAI DE 2002-10253586	A	20021115	<--	

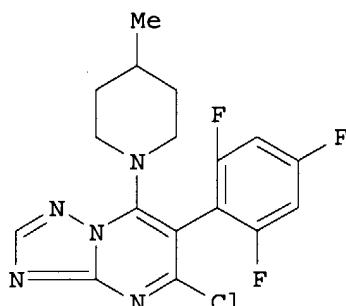
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004045288	ICM	A01N035-00

GI



I



II

AB Disclosed are fungicidal mixts. for controlling rice pathogens, containing synergistically effective amts. of metrafenone(I), and triazolopyrimidine derivative II.

ST synergism fungicide rice metrafenone triazolopyrimidine deriv

IT Pyricularia oryzae

(control by synergistic fungicidal mixts. for rice containing metrafenone and a triazolopyrimidine derivative)

IT Oryza sativa

(synergistic fungicidal mixts. for rice containing metrafenone and a triazolopyrimidine derivative)

IT Fungicides

(synergistic, agrochem.; synergistic fungicidal mixts. for rice containing metrafenone and a triazolopyrimidine derivative)

IT 692736-85-9

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic fungicidal mixture for rice)

IT 692736-85-9

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic fungicidal mixture for rice)

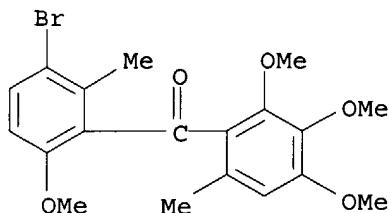
RN 692736-85-9 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-chloro-7-(4-methyl-1-piperidinyl)-6-(2,4,6-trifluorophenyl)[1,2,4]triazolo[1,5-a]pyrimidine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

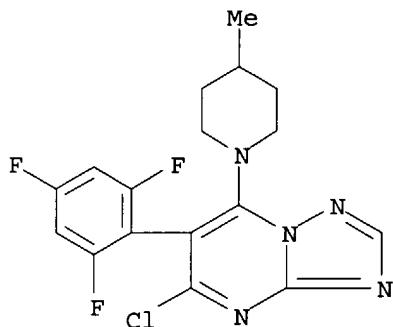
CMF C19 H21 Br O5



CM 2

CRN 214706-53-3

CMF C17 H15 Cl F3 N5



L31 ANSWER 3 OF 27 HCPLUS COPYRIGHT 2004 ACS on STN

AN 2004:387216 HCPLUS

DN 140:370223

ED Entered STN: 13 May 2004

TI Synergistic fungicide mixtures containing an oxazinone derivative

IN Rheinheimer, Joachim; Grote, Thomas; Ammermann, Eberhard; Stierl, Reinhard; Strathmann, Siegfried; Schoefl, Ulrich

PA BASF Aktiengesellschaft, Germany

SO PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM A01N043-86

ICS A01N043-84; A01N043-653; A01N043-56; A01N043-54; A01N043-40;  
A01N043-30; A01N037-52; A01N037-44; A01N037-38; A01N035-04

CC 5-2 (Agrochemical Bioregulators)

FAN.CNT 1

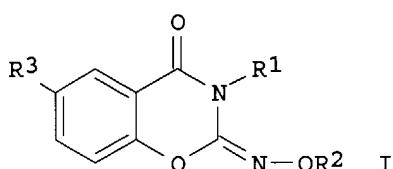
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PI	WO 2004039157	A1	20040513	WO 2003-EP11226	20031010 <--
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI DE 2002-10250278		A	20021028		<--

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	WO 2004039157	ICM	A01N043-86
		ICS	A01N043-84; A01N043-653; A01N043-56; A01N043-54; A01N043-40; A01N043-30; A01N037-52; A01N037-44; A01N037-38; A01N035-04

OS MARPAT 140:370223

GI



AB The invention relates to synergistic fungicide mixts. containing an oxazine I (R1 = Pr or Bu; R2 = Me, Et or Pr; R3 = F, Cl, Br or I) and at least one known fungicide.

ST synergism fungicide mixt oxazinone deriv

IT Fungicides

(synergistic, agrochem.; mixts. containing an oxazinone derivative)

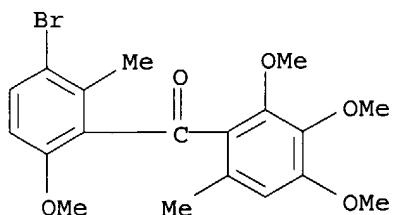
IT 60207-90-1D, Propiconazole, mixts. with oxazinone derivs. 67306-00-7D, Fenpropidin, mixts. with oxazinone derivs. 67564-91-4D, Fenpropimorph, mixts. with oxazinone derivs. 81412-43-3D, Tridemorph, mixts. with oxazinone derivs. 107534-96-3D, Tebuconazole, mixts. with oxazinone derivs. 110488-70-5D, Dimethomorph, mixts. with oxazinone derivs. 117428-22-5D, Picoxystrobin, mixts. with oxazinone derivs. 118134-30-8D, Spiroxamine, mixts. with oxazinone derivs. 125116-23-6D, Metconazole, mixts. with oxazinone derivs. 131860-33-8D, Azoxyxstrobin, mixts. with oxazinone derivs. 133855-98-8D, Epoxiconazole, mixts. with oxazinone derivs. 141517-21-7D, Trifloxystrobin, mixts. with oxazinone derivs. 143390-89-0D, Kresoxim-methyl, mixts. with oxazinone derivs.

149961-52-4D, Dimoxystrobin, mixts. with oxazinone derivs. 175013-18-0D,  
 Pyraclostrobin, mixts. with oxazinone derivs. 178928-70-6D,  
 Prothioconazole, mixts. with oxazinone derivs. 180409-60-3D,  
 Cyflufenamid, mixts. with oxazinone derivs. 188425-85-6D, Nicobifen,  
 mixts. with oxazinone derivs. 220899-03-6D, mixts. with  
 oxazinone derivs. 221201-92-9D, mixts. with oxazinone derivs.  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicides)

IT 220899-03-6D, mixts. with oxazinone derivs.  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicides)

RN 220899-03-6 HCPLUS

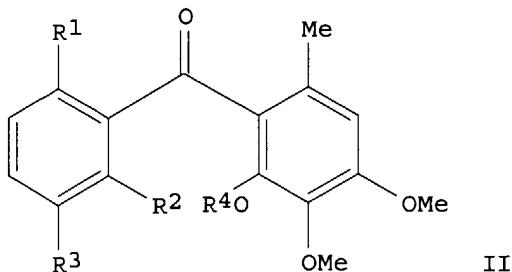
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 4 OF 27 HCPLUS COPYRIGHT 2004 ACS on STN  
 AN 2004:2594 HCPLUS  
 DN 140:37411  
 ED Entered STN: 02 Jan 2004  
 TI Synergistic fungicidal mixtures based on benzamidoxime derivatives, benzophenones, and an azole  
 IN Ammermann, Eberhard; Stierl, Reinhard; Schoefl, Ulrich; Strathmann, Siegfried; Schelberger, Klaus; Scherer, Maria; Haden, Egon  
 PA Basf Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 33 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 IC ICM A01N037-52  
 ICS A01N035-04; A01N043-653; A01N043-56  
 CC 5-2 (Agrochemical Bioregulators)  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004000019	A1	20031231	WO 2003-EP5949	20030606 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI DE 2002-10227656	A	20020620		<--
CLASS				

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004000019	ICM	A01N037-52
	ICS	A01N035-04; A01N043-653; A01N043-56
OS	MARPAT	140:37411
GI		



AB Fungicidal mixts. contain synergistically effective amts. of the following active constituents: (1) N-[(cyclopropylmethoxy)amino] [6-(difluoromethoxy)-2,3-difluorophenyl]methylene]benzeneacetamide (I) or a derivative wherein the benzeneacetamide moiety may have 1-3 substituents on the Ph ring chosen from among halo, C1-C4 alkyl, C1-C4 alkyl halide, or C1-C4 (halo)alkoxy; (2) a benzophenone (II), in which R1 = Cl, Me, MeO, AcO, pivaloyloxy, or OH; R2 = Cl or Me; R3 = H, halo, or Me; and R4 = C1-C6 alkyl or benzyl, whereby the Ph portion of the benzyl radical can be substituted by halo or Me; (3) epoxiconazole and, optionally; (4) pyraclostrobin. Thus, I + metrafenone + epoxiconazole at 0.25 + 0.25 + 1 ppm (1:1:4 mixture) synergistically controlled wheat powdery mildew caused by *Erysiphe graminis tritici*.

ST synergism fungicide benzamidoxime deriv benzophenone azole; epoxiconazole benzamidoxime deriv benzophenone fungicide synergism; pyraclostrobin benzamidoxime deriv benzophenone fungicide synergism

IT Fungicides  
(synergistic; mixts. of benzamidoxime derivs. and benzophenones with epoxiconazole and pyraclostrobin)

IT 636603-37-7 636603-38-8  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(as synergistic fungicide)

IT 133855-98-8D, Epoxiconazole, mixts. with benzamidoxime derivs. and benzophenones 175013-18-0D, Pyraclostrobin, mixts. with benzamidoxime derivs. and benzophenones 221201-92-9D, derivs., mixts. with benzophenones and azole 636603-36-6D, derivs., mixts. with benzamidoxime derivs. and azole  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(as synergistic fungicides)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) American Cyanamid Co; EP 1023834 A 2000 HCPLUS
- (2) Leyendecker, J; WO 02056686 A 2002 HCPLUS
- (3) Nippon Soda Co; EP 1077028 A 2001 HCPLUS
- (4) Schelberger, K; WO 02062140 A 2002 HCPLUS

IT 636603-37-7 636603-38-8

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(as synergistic fungicide)

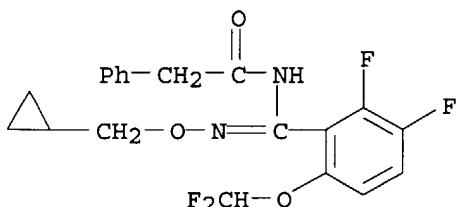
RN 636603-37-7 HCAPLUS

CN Benzeneacetamide, N-[[cyclopropylmethoxy]amino][6-(difluoromethoxy)-2,3-difluorophenyl]methylene-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone and rel-1-[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 221201-92-9

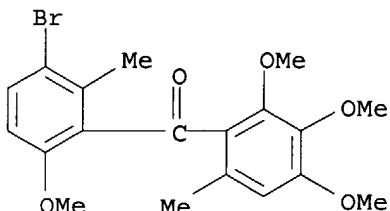
CMF C20 H18 F4 N2 O3



CM 2

CRN 220899-03-6

CMF C19 H21 Br O5

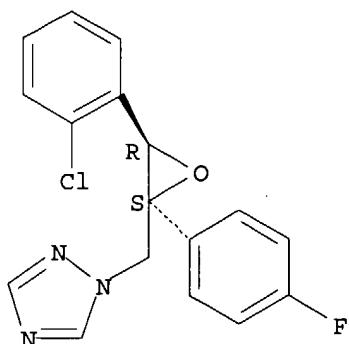


CM 3

CRN 133855-98-8

CMF C17 H13 Cl F N3 O

Relative stereochemistry.



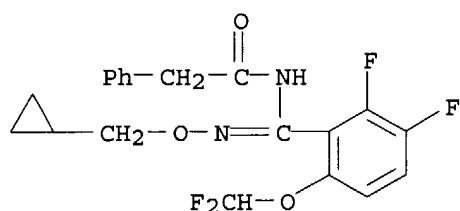
RN 636603-38-8 HCAPLUS

CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone and N-[(cyclopropylmethoxy)amino][6-(difluoromethoxy)-2,3-difluorophenyl]methylenbenzeneacetamide (9CI) (CA INDEX NAME)

CM 1

CRN 221201-92-9

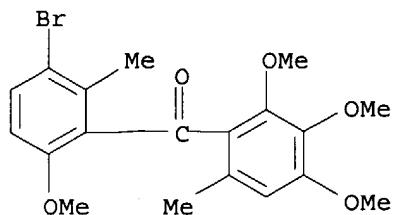
CMF C20 H18 F4 N2 O3



CM 2

CRN 220899-03-6

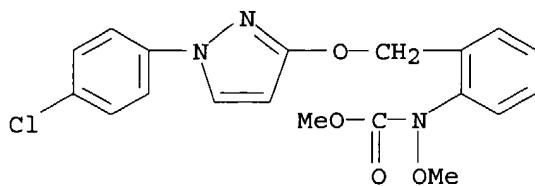
CMF C19 H21 Br O5



CM 3

CRN 175013-18-0

CMF C19 H18 Cl N3 O4



L31 ANSWER 5 OF 27 HCPLUS COPYRIGHT 2004 ACS on STN  
 AN 2003:875033 HCPLUS  
 DN 139:334300  
 ED Entered STN: 07 Nov 2003  
 TI Synergistic fungicidal mixtures comprising prothioconazole  
 IN Ammermann, Eberhard; Stierl, Reinhard; Lorenz, Gisela; Schoefl, Ulrich;  
 Strathmann, Siegfried; Schelberger, Klaus; Christen, Thomas  
 PA Basf Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 48 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 IC ICM A01N043-653  
 ICS A01N047-34; A01N047-26; A01N047-18; A01N043-78; A01N043-50;  
 A01N043-42; A01N043-40; A01N043-36; A01N043-32; A01N037-52;  
 A01N037-46; A01N037-38; A01N035-06; A01N035-04; A01N033-18  
 CC 5-2 (Agrochemical Bioregulators)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003090538	A1	20031106	WO 2003-EP2845	20030319 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI DE 2002-10212704	A	20020321	<--		

CLASS

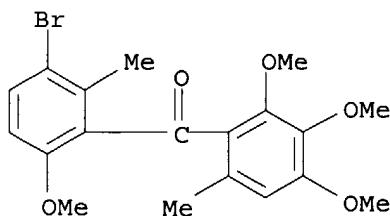
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2003090538	ICM	A01N043-653
	ICS	A01N047-34; A01N047-26; A01N047-18; A01N043-78; A01N043-50; A01N043-42; A01N043-40; A01N043-36; A01N043-32; A01N037-52; A01N037-46; A01N037-38; A01N035-06; A01N035-04; A01N033-18

AB The invention relates to a fungicidal mixture that comprises prothioconazole or its salts or adducts and at least one further fungicidal composition, selected from compds. such as boscalid, carboxine, metrafenone, quinoxyfen, dithianon, thiram, mepiquat chloride, cyazofamid, fenoxanil, thiophanate Me, carbendazim, metalaxyl, fludioxonil, thiabendazole, quintozene, prochloraz or anthraquinone, in a synergistically effective

amount  
 ST synergism fungicide prothioconazole mixt  
 IT Fungicides  
 (synergistic; mixts. comprising prothioconazole)  
 IT 215246-03-0 319920-19-9 345205-96-1 616235-45-1 616235-46-2,  
 Prothioconazole-carboxin mixture **616235-47-3** 616235-48-4  
 616235-49-5 616235-50-8 616235-51-9 616235-52-0 616235-53-1  
 616235-54-2 616235-55-3 616235-56-4 616235-57-5 616235-58-6  
 616235-59-7 616235-60-0 616235-61-1  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal composition)  
 IT 178928-70-6D, Prothioconazole, mixts. containing  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal compns.)  
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 RE  
 (1) Astrid, M; WO 9847370 A 1998 HCPLUS  
 (2) Stenzel, K; WO 9847367 A 1998 HCPLUS  
 (3) Wieland, K; WO 0180641 A 2001  
 IT **616235-47-3**  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal composition)  
 RN 616235-47-3 HCPLUS  
 CN 3H-1,2,4-Triazole-3-thione, 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-  
 2-hydroxypropyl]-1,2-dihydro-, mixt. with (3-bromo-6-methoxy-2-  
 methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX  
 NAME)

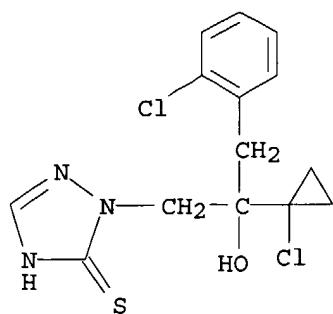
CM 1

CRN 220899-03-6  
 CMF C19 H21 Br 05



CM 2

CRN 178928-70-6  
 CMF C14 H15 Cl2 N3 O S



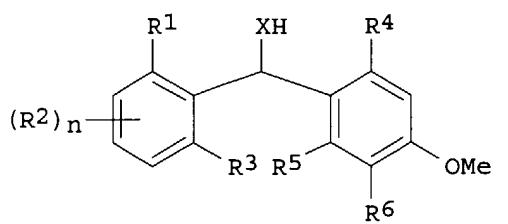
L31 ANSWER 6 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2003:356023 HCAPLUS  
 DN 138:337828  
 ED Entered STN: 09 May 2003  
 TI Preparation of diphenylmethanol derivatives as agricultural fungicides  
 IN Rose, Ingo; Tormo i Blasco, Jordi; Gewehr, Markus; Grammenos, Wassilios;  
 Mueller, Bernd; Rheinheimer, Joachim; Schaefer, Peter; Schieweck, Frank;  
 Grote, Thomas; Gypser, Andreas; Ammermann, Eberhard; Lorenz, Gisela;  
 Stierl, Reinhard; Strathmann, Siegfried; Carter, Paul; Curtze, Juergen  
 PA BASF Aktiengesellschaft, Germany  
 SO Eur. Pat. Appl., 58 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 IC ICM C07C069-14  
 ICS C07C039-42; C07C323-19; A01N031-14; A01N031-16; A01N033-10;  
 A01N037-38; A01N037-40  
 CC 25-7 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1308433	A1	20030507	EP 2002-23344	20021018 <--
	EP 1308433	B1	20040428		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	AT 265414	E	20040515	AT 2002-23344	20021018 <--
	JP 2003206252	A2	20030722	JP 2002-313232	20021028 <--
	US 2003207938	A1	20031106	US 2002-282023	20021029 <--
	US 6767923	B2	20040727		
PRAI	DE 2001-10153300	A	20011031	<--	

## CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP	1308433	ICM	C07C069-14
		ICS	C07C039-42; C07C323-19; A01N031-14; A01N031-16; A01N033-10; A01N037-38; A01N037-40
EP	1308433	ECLA	C07C043/23; C07C069/017; C07C323/25B
OS	MARPAT 138:337828		<--
GI			



AB Title compds. [I; X = O, S; R1, R3 = halo, cyano, NO<sub>2</sub>, SH, amino, alkyl, alkenyl, alkynyl, alkoxy, etc.; R2 = halo, cyano, NO<sub>2</sub>, SH, amino, alkyl, alkoxy, haloalkyl, haloalkoxy; n = 0-2; R4 = (halogenated) alkyl, alkenyl, alkynyl; R5, R6 = OH, alkyl, alkenyl, haloalkyl, haloalkenyl, alkoxy, alkenyloxy, haloalkoxy, haloalkenyl, etc.], were prepared. Thus, 2.36 g 2,3,4-trimethoxy-6-methylbromobenzene and Mg cuttings in THF were refluxed with 1,2-dibromoethane for 40 min followed by stirring with 1.4 g 5-bromo-2-methoxy-6-methylbenzaldehyde for 2 h at 30.degree. to give 1.5 g I (X = O; R1, R5, R6 = OMe; R3, R4 = Me; R2 = 3-Br; n = 1). The latter at 4 or 16 ppm showed >70% control of powdery mildew on wheat.

ST diphenylmethanol prepn agricultural fungicide; methanol diphenyl prepn agricultural fungicide

IT Fungicides

(agrochem.; preparation of diphenylmethanol derivs. as agricultural fungicides)

IT 515861-96-8P 515861-99-1P 515862-02-9P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of diphenylmethanol derivs. as agricultural fungicides)

IT 72326-72-8 137644-93-0 252955-12-7 459836-90-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of diphenylmethanol derivs. as agricultural fungicides)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) American Cyanamid Co; EP 0727141 A 1996 HCPLUS

(2) Ici Plc; EP 0015756 A 1980 HCPLUS

(3) Mayer, D; US 3340294 A 1967 HCPLUS

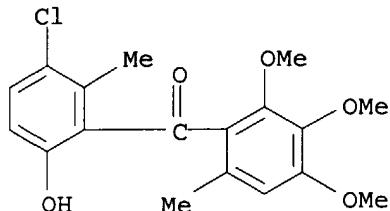
IT 252955-12-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of diphenylmethanol derivs. as agricultural fungicides)

RN 252955-12-7 HCPLUS

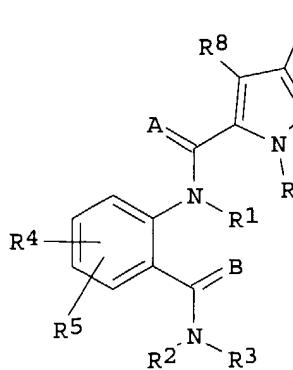
CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



AN 2003:242097 HCAPLUS  
 DN 138:267201  
 ED Entered STN: 28 Mar 2003  
 TI Pesticidal compositions for coating plant propagation material containing  
 anthranilamides  
 IN Berger, Richard Alan; Flexner, John Lindsey  
 PA E. I. Du Pont de Nemours & Co., USA  
 SO PCT Int. Appl., 147 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A01N043-56  
 CC 5-4 (Agrochemical Bioregulators)  
 Section cross-reference(s): 28  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003024222	A1	20030327	WO 2002-US30302	20020910 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1427285	A1	20040616	EP 2002-775972	20020910 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRAI	US 2001-323941P	P	20010921		<--
	WO 2002-US30302	W	20020910		<--

CLASS  
 PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES  
 WO 2003024222 ICM A01N043-56  
 OS MARPAT 138:267201  
 GI



AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, .gamma.-aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.

ST arthropodicide insecticide anthranilamide prepn propagule seed

IT Insecticides  
(carbamate; in pesticidal compns. for plant propagation material containing anthranilamides)

IT Leaf  
(cutting; pesticidal compns. containing anthranilamides for treatment of)

IT Eubacteria

Fungi

Virus  
(entomopathogenic; in pesticidal compns. for plant propagation material containing anthranilamides)

IT Adhesives  
Bacillus thuringiensis aizawai  
Bacillus thuringiensis kurstaki  
Baculoviridae  
Coating materials  
Fungicides  
GABA antagonists  
Gums and Mucilages  
Latex  
(in pesticidal compns. for plant propagation material containing anthranilamides)

IT Macrolides  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(in pesticidal compns. for plant propagation material containing anthranilamides)

IT Acrylic polymers, biological studies  
RL: AGR (Agricultural use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(in pesticidal compns. for plant propagation material containing anthranilamides)

IT Fats and Glyceridic oils, biological studies  
RL: AGR (Agricultural use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(in pesticidal compns. for plant propagation material containing anthranilamides)

IT Gelatins, biological studies  
RL: AGR (Agricultural use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(in pesticidal compns. for plant propagation material containing anthranilamides)

IT Oils  
RL: AGR (Agricultural use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(in pesticidal compns. for plant propagation material containing anthranilamides)

IT Polyoxyalkylenes, biological studies  
 RL: AGR (Agricultural use); TEM (Technical or engineered material use);  
 BIOL (Biological study); USES (Uses)  
 (in pesticidal compns. for plant propagation material containing  
 anthranilamides)

IT Polysaccharides, biological studies  
 RL: AGR (Agricultural use); TEM (Technical or engineered material use);  
 BIOL (Biological study); USES (Uses)  
 (in pesticidal compns. for plant propagation material containing  
 anthranilamides)

IT Proteins  
 RL: AGR (Agricultural use); TEM (Technical or engineered material use);  
 BIOL (Biological study); USES (Uses)  
 (in pesticidal compns. for plant propagation material containing  
 anthranilamides)

IT Shellac  
 RL: AGR (Agricultural use); TEM (Technical or engineered material use);  
 BIOL (Biological study); USES (Uses)  
 (in pesticidal compns. for plant propagation material containing  
 anthranilamides)

IT Waxes  
 RL: AGR (Agricultural use); TEM (Technical or engineered material use);  
 BIOL (Biological study); USES (Uses)  
 (in pesticidal compns. for plant propagation material containing  
 anthranilamides)

IT Zeins  
 RL: AGR (Agricultural use); TEM (Technical or engineered material use);  
 BIOL (Biological study); USES (Uses)  
 (in pesticidal compns. for plant propagation material containing  
 anthranilamides)

IT Juvenile hormones  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
 (Biological study); USES (Uses)  
 (mimics; in pesticidal compns. for plant propagation material containing  
 anthranilamides)

IT Melon (plant)  
 (musk-; pesticidal compns. containing anthranilamides for plant propagation  
 material of)

IT Insecticides  
 (neonicotinoid; in pesticidal compns. for plant propagation material  
 containing anthranilamides)

IT Onion (Allium cepa)  
 (ornamental; pesticidal compns. containing anthranilamides for plant  
 propagation material of)

IT Anemone  
 Arachis hypogaea  
 Armeria  
 Avena sativa  
 Begonia tuberhybrida  
 Beta vulgaris  
 Brassica juncea  
 Brassica nigra  
 Brassica oleracea capitata  
 Calla  
 Capsicum  
 Chionodoxa  
 Chrysanthemum  
 Coleus  
 Cosmos (plant)  
 Crocus (plant)

Cucumis sativus  
Cyclamen  
Dahlia (plant)  
Daucus carota  
Freesia  
Geranium (horticultural common name)  
Gerbera  
Gladiolus  
Gloxinia (genus)  
Gossypium hirsutum  
Gypsophila elegans  
Helianthus annuus  
Hordeum vulgare  
Hyacinth (plant)  
Impatiens  
Iris (plant)  
Lactuca sativa  
Liatris spicata  
Lilium  
Linum usitatissimum  
Lisianthus  
Lycopersicon esculentum  
Marigold  
Medicago sativa  
Muscari racemosum  
Narcissus  
Nicotiana tabacum  
Onion (Allium cepa)  
Oryza sativa  
Oxalis corniculata  
Petunia  
Phaseolus lunatus  
Phaseolus vulgaris  
Pisum sativum  
Puschkinia libanotica  
Rapeseed  
Scabiosa atropurpurea  
Secale cereale  
Snapdragon (Antirrhinum)  
Solanum melongena  
Solanum tuberosum  
Sorghum  
Soybean (Glycine max)  
Squash (Cucurbita)  
Squill (plant)  
Sweet potato  
Triticum turgidum durum  
Tulip  
Turnip  
Vicia faba  
Viola wittrockiana  
Watermelon (Citrullus lanatus)  
Yam (Dioscorea)  
Yarrow (Achillea)  
Zea mays  
Zinnia  
Zizania  
(pesticidal compns. containing anthranilamides for plant propagation  
material of)  
IT Bulb (plant)

Seed  
 Stem  
 Tuber (plant organ)  
 (pesticidal compns. containing anthranilamides for treatment of)  
 IT Pyrethrins  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
 (Biological study); USES (Uses)  
 (pyrethroids; in pesticidal compns. for plant propagation material  
 containing anthranilamides)  
 IT Stem  
 (rhizome; pesticidal compns. containing anthranilamides for treatment of)  
 IT Ion channel blockers  
 (sodium; in pesticidal compns. for plant propagation material containing  
 anthranilamides)  
 IT Toxins  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
 (Biological study); USES (Uses)  
 (.delta.-endotoxins; in pesticidal compns. for plant propagation  
 material containing anthranilamides)  
 IT 362637-52-3 362637-54-5 362637-55-6 362637-56-7 362637-57-8  
 362637-58-9 362637-59-0 362637-60-3 362637-61-4 362637-62-5  
 362637-63-6 362637-64-7 362637-65-8 362637-66-9 362637-67-0  
 362637-68-1 362637-69-2 362637-71-6 362637-72-7 362637-73-8  
 362637-74-9 362637-75-0 362637-76-1 362637-77-2 362637-78-3  
 362637-79-4 362637-80-7 362637-81-8 362637-82-9 362637-83-0  
 362637-84-1 362637-85-2 362637-86-3 362637-87-4 362637-88-5  
 362637-89-6 362637-90-9 362637-91-0 362637-92-1 362637-93-2  
 362637-94-3 362637-95-4 362637-96-5 362637-97-6 362637-98-7  
 362638-00-4 362638-03-7 362638-04-8 362638-05-9  
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 362638-42-4 362638-43-5 362638-44-6 362638-45-7 362638-46-8  
 362638-47-9 362638-48-0 362638-49-1 362638-50-4 362638-51-5  
 362638-52-6 362638-53-7 362638-54-8 362638-55-9 362638-56-0  
 362638-57-1 362638-58-2 362638-59-3 362638-60-6 362638-63-9  
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 362638-89-9 362638-90-2 362638-91-3 362638-92-4 362638-93-5  
 362638-94-6 362638-95-7 362638-96-8 362638-97-9 362638-98-0  
 362638-99-1 362639-00-7 362639-01-8 362639-02-9 362639-03-0  
 362639-04-1 362639-05-2 362639-06-3 362639-07-4 362639-09-6  
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 362639-36-9 362639-37-0 362639-38-1 362639-40-5 362639-41-6  
 362639-42-7 362639-43-8 362639-44-9 362639-45-0 362639-46-1  
 362639-47-2 362639-48-3 362639-49-4 362639-50-7 362639-51-8  
 362639-52-9 362639-53-0 362639-54-1 362639-55-2 362639-56-3  
 362639-57-4 362639-58-5 362639-59-6 362639-60-9 362639-61-0  
 362639-63-2 362639-64-3 362639-65-4 362639-66-5 362639-67-6

362639-68-7	362639-69-8	362639-70-1	362639-71-2	362639-73-4
362639-74-5	362639-75-6	362639-76-7	362639-77-8	362639-78-9
362639-79-0	362639-80-3	362639-81-4	362639-82-5	362639-85-8
362640-64-0	362640-65-1	500005-50-5	500005-52-7	500005-53-8
500005-54-9	500005-55-0	500005-56-1	500005-57-2	500005-58-3
500005-59-4	500005-64-1	500005-65-2	500005-69-6	500005-70-9
500005-71-0	500005-72-1			

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(anthranilamide compds. as pesticides for plant propagation material)

IT	500005-73-2	500005-74-3	500005-75-4	500005-76-5	500005-77-6
	500005-78-7	500005-79-8	500005-80-1	500005-81-2	500005-82-3
	500005-84-5	500005-85-6	500005-86-7	500005-87-8	500005-88-9
	500005-89-0	500005-90-3	500005-94-7	500005-95-8	500005-97-0
	500005-98-1	500005-99-2	500006-00-8	500006-01-9	500006-02-0
	500006-03-1	500006-04-2	500006-05-3	500006-06-4	500006-07-5
	500006-08-6	500006-09-7	500006-10-0	500006-11-1	500006-12-2
	500006-13-3	500006-14-4	500006-15-5	500006-16-6	500006-17-7
	500006-18-8	500006-19-9	500006-20-2	500006-21-3	500006-22-4
	500006-23-5	500006-24-6	500006-25-7	500006-26-8	500006-27-9
	500006-29-1	500006-30-4	500006-31-5	500006-32-6	500006-33-7
	500006-34-8	500006-35-9	500006-36-0	500006-37-1	500006-39-3
	500006-41-7	500006-43-9	500006-45-1	500006-47-3	500006-49-5
	500006-50-8	500006-51-9	500006-52-0	500006-53-1	500006-54-2
	500006-55-3	500006-56-4	500006-57-5	500006-58-6	500006-59-7
	500006-60-0	500006-61-1	500006-62-2	500006-63-3	500006-64-4
	500006-65-5	500006-66-6	500006-67-7	500006-68-8	500006-69-9
	500006-70-2	500006-71-3	500006-72-4	500006-73-5	500006-74-6
	500006-75-7	500006-76-8	500006-78-0	500006-79-1	500006-80-4
	500006-81-5	500006-82-6	500006-83-7	500006-84-8	500006-85-9
	500006-86-0	500006-87-1	500006-88-2	500006-89-3	500006-90-6
	500006-91-7	500006-92-8	500006-93-9	500006-94-0	500006-95-1
	500006-96-2	500006-97-3	500006-98-4	500006-99-5	500007-00-1
	500007-01-2	500007-02-3	500007-03-4	500007-04-5	500007-05-6
	500007-07-8	500007-08-9	500007-09-0	500007-10-3	500007-11-4
	500007-12-5	500007-13-6	500007-14-7	500007-15-8	500007-16-9
	500007-17-0	500007-20-5	500007-21-6	500007-23-8	500007-25-0
	500007-26-1	500007-27-2	500007-28-3	500007-29-4	500007-30-7
	500007-31-8	500007-32-9	500007-33-0	500007-34-1	500007-35-2
	500007-36-3	500007-37-4	500007-38-5	500007-39-6	500007-40-9
	500007-41-0	500007-42-1	500007-43-2	500007-44-3	500007-45-4
	500007-46-5	500007-47-6	500007-48-7	500007-49-8	500007-50-1
	500007-51-2	500007-53-4	500007-54-5	500007-55-6	500007-56-7
	500007-57-8	500007-58-9	500007-59-0	500007-60-3	500007-61-4
	500007-62-5	500007-63-6	500007-64-7	500007-65-8	500007-67-0
	500007-68-1	500007-69-2	500007-70-5	500007-71-6	500007-72-7
	500007-73-8	500007-74-9	500007-75-0	500007-76-1	500007-77-2
	500007-78-3	500007-80-7	500007-81-8	500007-82-9	500007-83-0
	500007-84-1	500007-85-2	500007-87-4	500007-88-5	500007-89-6
	500007-90-9	500007-91-0	500007-92-1	500007-93-2	500007-94-3
	500007-95-4	500007-96-5	500007-97-6	500008-02-6	500008-03-7
	500008-04-8	500008-05-9	500008-06-0	500008-07-1	500008-10-6
	500008-11-7	500008-12-8	500008-14-0	500008-18-4	500008-19-5
	500008-20-8	500008-21-9	500008-23-1	500008-25-3	500008-27-5
	500008-29-7	500008-30-0	500008-32-2	500008-34-4	500008-35-5
	500008-36-6	500008-37-7	500008-39-9	500008-41-3	500008-42-4
	500008-47-9	500008-49-1	500008-51-5	500008-53-7	500008-54-8
	500008-55-9	500008-56-0			

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(anthranilamide compds. as pesticides for plant propagation material)

IT 500008-57-1 500008-58-2 500008-59-3 500008-64-0 500008-66-2  
 500008-67-3 500008-68-4 500008-69-5 500008-70-8 500008-71-9  
 500008-72-0 500008-73-1 500008-74-2 500008-75-3 500008-76-4  
 500008-77-5 500008-79-7 500008-80-0 500008-81-1 500008-82-2  
 500008-84-4 500008-85-5 500008-86-6 500008-87-7 500008-88-8  
 500008-89-9 500008-90-2 500008-91-3 500008-92-4 500008-93-5  
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 500010-01-5 500010-02-6 500010-03-7 500010-04-8 500010-05-9  
 500010-06-0 500010-07-1 500010-08-2 500010-09-3 500010-11-7  
 500010-12-8 500010-13-9 500010-14-0 500010-15-1 500010-16-2  
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 500010-85-5 500010-86-6 500010-87-7 500010-88-8 500010-89-9  
 500010-90-2 500010-91-3 500010-92-4 500010-93-5 500010-94-6  
 500010-95-7 500010-96-8 500010-97-9 500010-98-0 500010-99-1  
 500011-00-7 500011-01-8 500011-02-9 500011-04-1 500011-05-2  
 500011-06-3 500011-07-4 500011-08-5 500011-10-9 500011-11-0  
 500011-12-1 500011-13-2 500011-14-3 500011-15-4 500011-16-5  
 500011-17-6 500011-18-7 500011-19-8 500011-20-1 500011-21-2  
 500011-22-3 500011-23-4 500011-24-5 500011-25-6 500011-26-7  
 500011-27-8 500011-28-9

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(anthranilamide compds. as pesticides for plant propagation material)

IT 500011-29-0 500011-31-4 500011-37-0 500011-38-1 500011-39-2  
 500011-40-5 500011-41-6 500011-42-7 500011-43-8 500011-44-9  
 500011-45-0 500011-46-1 500011-47-2 500011-48-3 500011-49-4  
 500011-50-7 500011-51-8 500011-52-9 500011-53-0 500011-54-1  
 500011-55-2 500011-56-3 500011-57-4 500011-58-5 500011-59-6  
 500011-60-9 500011-61-0 500011-62-1 500011-63-2 500011-64-3  
 500011-80-3 503163-52-8 503163-54-0 503163-56-2 503163-66-4

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL

## (Biological study); USES (Uses)

(anthranilamide compds. as pesticides for plant propagation material)

IT 362639-39-2 362639-72-3 500005-60-7 500005-61-8 500005-62-9  
 500005-63-0 500005-66-3 500005-67-4 500005-68-5 500005-83-4  
 500005-91-4 500005-92-5 500005-93-6 500005-96-9 500006-28-0  
 500007-18-1 500007-19-2 500007-22-7 500007-98-7 500007-99-8  
 500008-13-9 500009-19-8 500009-22-3 500009-24-5 500009-70-1  
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 500009-76-7 500009-85-8 500010-66-2 500011-03-0 500011-09-6  
 500011-30-3 500011-32-5 500011-33-6 500011-35-8 500011-36-9  
 500011-65-4 500011-66-5 500011-67-6 500011-68-7 500011-69-8  
 500011-70-1 500011-71-2 500011-72-3 500011-73-4 500011-74-5  
 500011-75-6 500011-76-7 500011-77-8 500011-78-9 500011-79-0  
 503163-58-4 503163-61-9 503163-64-2

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(anthranilamide compds. as pesticides for plant propagation material)

IT 52-68-6 56-38-2 57-13-6D, Urea, derivs. 60-51-5, Dimethoate  
 72-43-5 76-87-9, Fentin hydroxide 83-79-4 86-50-0, Azinphos-methyl  
 99-30-9, Dicloran 108-62-3 115-29-7 115-32-2 116-06-3 121-75-5  
 133-06-2, Captan 133-07-3, Folpet 137-26-8, Thiram 148-79-8,  
 Thiabendazole 298-00-0 298-02-2 333-41-5, Diazinon 510-15-6  
 732-11-6 900-95-8, Fentin acetate 944-22-9 950-37-8 1332-40-7,  
 Copper oxychloride 1563-66-2, Carbofuran 1897-45-6, Chlorothalonil  
 2079-00-7, Blasticidin-S 2227-17-0 2310-17-0 2312-35-8 2425-06-1,  
 Captafol 2439-01-2 2439-10-3, Dodine 2675-77-6, Chloroneb  
 2921-88-2, Chlorpyrifos 5598-13-0, Chlorpyrifos-methyl 6585-53-1,  
 Ferric methanearsonate 6923-22-4 6980-18-3, Kasugamycin 7440-50-8D,  
 Copper, salts 7704-34-9, Sulfur, biological studies 8011-63-0,  
 Bordeaux mixture 8018-01-7, Mancozeb 10265-92-6 10605-21-7,  
 Carbendazim 11141-17-6, Azadirachtin 12427-38-2, Maneb 13071-79-9  
 13121-70-5 13171-21-6 13356-08-6 16752-77-5 17109-49-8, Edifenphos  
 17804-35-2, Benomyl 22224-92-6 22248-79-9 23103-98-2 23135-22-0  
 23564-05-8, Thiophanate-methyl 24579-73-5, Propamocarb 25311-71-1  
 26087-47-8, Iprobenfos 27605-76-1, Probenazole 30560-19-1, Acephate  
 33089-61-1 35367-38-5, Diflubenzuron 35400-43-2 36734-19-7,  
 Iprodione 39148-24-8, Fosetylaluminum 39515-41-8 40596-69-8  
 41198-08-7 41814-78-2, Tricyclazole 43121-43-3, Triadimefon  
 50471-44-8, Vinclozolin 50512-35-1, Isoprothiolane 50642-14-3,  
 Validamycin 51630-58-1 52207-48-4 52315-07-8, Cypermethrin  
 52645-53-1 52918-63-5, Deltamethrin 53112-28-0, Pyrimethanil  
 55219-65-3, Triadimenol 55814-41-0, Mepronil 57369-32-1, Pyroquilon  
 57646-30-7, Furalaxyd 57837-19-1, Metalaxyd 57966-95-7, Cymoxanil  
 58842-20-9 59669-26-0 60168-88-9, Fenarimol 60207-90-1,  
 Propiconazole 62850-32-2 62865-36-5, Diclomezine 63837-33-2,  
 Diofenolan 64628-44-0 66063-05-6, Pencycuron 66215-27-8, Cyromazine  
 66230-04-4 66246-88-6, Penconazole 66332-96-5, Flutolanil 66841-25-6  
 67306-00-7, Fenpropidin 67564-91-4, Fenpropimorph 67747-09-5,  
 Prochloraz 68085-85-8, Cyhalothrin 68359-37-5, Cyfluthrin  
 69327-76-0, Buprofezin 70124-77-5 70630-17-0, Mefenoxam 71422-67-8,  
 Chlorfluazuron 71751-41-2, Abamectin 72490-01-8 73989-17-0,  
 Avermectin 74738-17-3, Fenpiclonil 76674-21-0, Flutriafol  
 77732-09-3, Oxadixyl 78587-05-0 79538-32-2 79622-59-6, Fluazinam  
 79983-71-4, Hexaconazole 80060-09-9, Diafenthiuron 82657-04-3,  
 Bifenthrin 83121-18-0 83657-18-5, Diniconazole-M 83657-24-3,  
 Diniconazole 84466-05-7, Amidoflumet 85509-19-9, Flusilazole  
 86479-06-3 88283-41-4, Pyrifenoxy 88671-89-0, Myclobutanil 91465-08-6  
 94361-06-5, Cyproconazole 95737-68-1 96489-71-3 101463-69-8  
 102851-06-9 103055-07-8 104030-54-8, Carpropamid 107534-96-3,  
 Tebuconazole 110488-70-5, Dimethomorph 111988-49-9 112226-61-6

112281-77-3, Tetraconazole 112410-23-8 114369-43-6, Fenbuconazole  
 116255-48-2, Bromuconazole 116714-46-6 118134-30-8, Spiroxamine  
 119168-77-3 119446-68-3, Difenoconazole 119791-41-2, Emamectin  
 120068-37-3 120928-09-8 121451-02-3 121552-61-2, Cyprodinil  
 122453-73-0, Chlorfenapyr 123312-89-0 123572-88-3, Furametpyr  
 124495-18-7, Quinoxyfen 125116-23-6, Metconazole 125225-28-7,  
 Ipconazole 126448-41-7, Acibenzolar 130000-40-7, Thifluzamide  
 131341-86-1, Fludioxonil 131807-57-3, Famoxadone 131860-33-8,  
 Azoxystrobin 131983-72-7, Triticonazole 133408-50-1, Metominostrobin  
 133855-98-8, Epoxiconazole 134098-61-6 136426-54-5, Fluquinconazole  
 138261-41-3 139920-32-4, Dicloctemet 140923-17-7, SZX0722  
 141517-21-7, Trifloxystrobin 143390-89-0, Kresoxim-methyl 143807-66-3,  
 Chromafenozone 149877-41-8, Bifenazate 149961-52-4, Dimoxystrobin  
 153233-91-1 153719-23-4 154025-04-4, Flumetover 156052-68-5, RH 7281  
 158062-67-0 160430-64-8, Acetamiprid 161050-58-4 161326-34-7  
 168316-95-8, Spinosad 170015-32-4 173584-44-6 175013-18-0,  
 Pyraclostrobin 178928-70-6, Prothioconazole 179101-81-6 180409-60-3,  
 Cyflufenamid 181587-01-9 188425-85-6, Nicobifen 189278-12-4,  
 Proquinazid 210880-92-5, Clothianidin 211867-47-9, SYP-L190  
**220899-03-6**, Metrafenone 223580-51-6, Tiadinil 248593-16-0,  
 Orysastrobin 283594-90-1 361377-29-9, Fluoxastrobin  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
 (Biological study); USES (Uses)  
 (in pesticidal compns. for plant propagation material containing  
 anthranilamides)

IT 75-35-4D, Vinylidene chloride, polymers and copolymers 79-41-4D,  
 Methylacrylic acid, imide derivs. 79-41-4D, Acrylimide, polymers and  
 copolymers, imide derivs. 8062-15-5, Lignosulfonate 9000-01-5, Gum  
 arabic 9000-30-0, Guar gum 9000-36-6, Karaya gum 9000-65-1,  
 Tragacanth gum 9002-89-5 9002-89-5D, Polyvinyl alcohol, copolymers  
 9003-09-2, Polyvinyl methyl ether 9003-20-7D, Polyvinyl acetate,  
 derivs., copolymers 9003-39-8, Polyvinylpyrrolidone 9004-32-4,  
 Carboxymethylcellulose 9004-34-6D, Cellulose, derivs. 9004-53-9,  
 Dextrans 9004-57-3, Ethylcellulose 9004-64-2, Hydroxypropylcellulose  
 9004-67-5D, Methylcellulose, derivs. 9005-25-8D, Starch, derivs.  
 9005-32-7, Alginic acid 9010-98-4, Polychloroprene 9011-16-9  
 9012-76-4, Chitosan 9050-36-6, Malto-dextrin 25086-89-9 25322-68-3,  
 Polyethylene oxide 26022-14-0, Polyhydroxyethyl acrylate 30811-69-9,  
 Polyvinylacrylate 37353-59-6D, Hydroxymethylcellulose, derivs.  
 69670-80-0, Hydroxymethylpropylcellulose  
 RL: AGR (Agricultural use); TEM (Technical or engineered material use);  
 BIOL (Biological study); USES (Uses)  
 (in pesticidal compns. for plant propagation material containing  
 anthranilamides)

IT 362637-53-4P 362637-70-5P 362638-30-0P 362639-62-1P 438450-41-0P,  
 N-[4-Chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-  
 pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide 500008-00-4P  
 500008-44-6P 500008-45-7P 500008-60-6P 500008-62-8P 500010-10-6P  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN  
 (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 (preparation of anthranilamide compds. as pesticides for plant propagation  
 material)

IT 129585-50-8P  
 RL: BYP (Byproduct); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of anthranilamide compds. as pesticides for plant propagation  
 material)

IT 74-89-5, Methylamine, reactions 75-03-6, Iodoethane 75-31-0,  
 Isopropylamine, reactions 76-05-1, Trifluoroacetic acid, reactions  
 79-37-8, Oxalyl chloride 98-59-9, p-Toluenesulfonyl chloride 100-63-0,

Phenylhydrazine 109-72-8, n-Butyllithium, reactions 112-02-7, Cetyltrimethylammonium chloride 121-44-8, Triethylamine, reactions 124-63-0, Methanesulfonyl chloride 128-09-6, N-Chlorosuccinimide 367-57-7 421-50-1, 1,1,1-Trifluoroacetone 503-38-8, Trichloromethyl chloroformate 541-41-3, Ethyl chloroformate 584-08-7, Potassium carbonate 630-25-1, 1,2-Dibromotetrachloroethane 1310-58-3, Potassium hydroxide, reactions 2402-77-9, 2,3-Dichloropyridine 4111-54-0, Lithium diisopropylamide 4389-45-1, 2-Amino-3-methylbenzoic acid 4755-77-5, Ethyl chlorooxacetate 5437-38-7, 3-Methyl-2-nitrobenzoic acid 6226-25-1, 2,2,2-Trifluoroethyl trifluoromethanesulfonate 7087-68-5, N,N-Diisopropylethylamine 7664-93-9, Sulfuric acid, reactions 7789-69-7, Phosphorus pentabromide 10025-87-3, Phosphorus oxychloride 10035-10-6, Hydrogen bromide, reactions 14521-80-3, 3-Bromopyrazole 20154-03-4, 3-Trifluoromethylpyrazole 22206-57-1, Tetrabutylammonium fluoride hydrate 22841-92-5 65753-47-1, 2-Chloro-3-trifluoromethylpyridine 66176-17-8, 3-Methylisatoic anhydride 133228-21-4 458543-79-8 499790-43-1 500011-81-4 500011-88-1 500011-94-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of anthranilamide compds. as pesticides for plant propagation material)

IT 14339-33-4P, 3-Chloropyrazole 20776-67-4P, 2-Amino-3-methyl-5-chlorobenzoic acid 68289-10-1P, 2-Amino-3-methyl-N-(1-methylethyl)benzamide 120374-68-7P 128694-66-6P 362640-53-7P, 3-Methyl-N-(1-methylethyl)-2-nitrobenzamide 362640-58-2P 362640-59-3P 362640-60-6P 362640-61-7P 362640-62-8P 438450-38-5P, 3-Chloro-2-[3-(trifluoromethyl)-1H-pyrazol-1-yl]pyridine 438450-39-6P 438450-40-9P, 6-Chloro-2-[1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one 458543-77-6P 458543-78-7P 499790-45-3P 499790-46-4P 500011-82-5P 500011-83-6P 500011-84-7P 500011-85-8P 500011-86-9P 500011-87-0P 500011-89-2P 500011-90-5P 500011-91-6P 500011-92-7P 500011-95-0P 500011-96-1P 500011-97-2P 500011-98-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of anthranilamide compds. as pesticides for plant propagation material)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

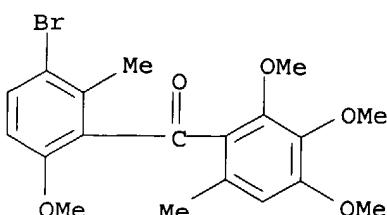
- (1) Du Pont; WO 0170671 A 2001 HCPLUS
- (2) Mitsubishi Chem Ind; EP 0289879 A 1988 HCPLUS

IT 220899-03-6, Metrafenone

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(in pesticidal compns. for plant propagation material containing anthranilamides)

RN 220899-03-6 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 8 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2003:238323 HCAPLUS  
 DN 138:255100  
 ED Entered STN: 27 Mar 2003  
 TI Preparation of xanthones as agricultural fungicides  
 IN Rose, Ingo; Tormo i Blasco, Jordi; Gewehr, Markus; Grammenos, Wassilius;  
 Mueller, Bernd; Rheinheimer, Joachim; Schaefer, Peter; Schieweck, Frank;  
 Grote, Thomas; Gypser, Andreas; Ammermann, Eberhard; Lorenz, Gisela;  
 Stierl, Reinhard; Strathmann, Siegfried  
 PA BASF Aktiengesellschaft, Germany  
 SO Eur. Pat. Appl., 30 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 IC ICM C07D311-86  
 ICS A01N043-16  
 CC 27-14 (Heterocyclic Compounds (One Hetero Atom))  
 Section cross-reference(s) : 5  
 FAN.CNT 1

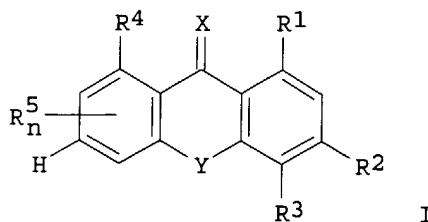
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1295877	A1	20030326	EP 2002-20207	20020910 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	JP 2003201289	A2	20030718	JP 2002-272397	20020919 <--
	US 6576595	B1	20030610	US 2002-251783	20020923 <--
PRAI	DE 2001-10146706	A	20010921	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1295877	ICM	C07D311-86
	ICS	A01N043-16
EP 1295877	ECLA	A01N043/16; C07C045/46; C07C045/54; C07C049/84; C07D311/86

OS MARPAT 138:255100

GI



AB Title compds. [I; R1 = (halo)alkyl; R2, R3 = H, alkoxy, alkenyloxy, alkynyoxy; or R2R3 = (substituted) oxyalkyloxy; R4, R5 = halo, cyano, OH, amino, SH, (halo)alkyl, (halo)alkoxy, (halo)alkylthio, alkylcarbonyl, alkylcarbonylthio; n = 0-2; X, Y = O, S], were prepared. Thus, a mixture of Na in MeOH was treated with 1-(2,6-dichlorophenyl)-1-(2-hydroxy-3,4-dimethoxy-6-methylphenyl)methanone (preparation given) in DME at 0.degree.-5.degree. under protective atmospheric followed by stirring for 72 h at 80.degree. and precipitation with H2O/AcOH to give 100% 3,4,8-trimethoxy-1-methylxanthen-9-one.

I (R1 = Me; R2-R4 = OMe; R5 = 7-Cl; X, Y = O) at 4-16 ppm gave .gtoreq. 97% control of Blumeria graminis forma specialis tritici.

ST xanthone prepn agricultural fungicide

IT Fungicides  
(agrochem.; preparation of xanthones as agricultural fungicides)

IT 502847-04-3P, 3,4,8-Trimethoxy-1-methylxanthen-9-one  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation of xanthones as agricultural fungicides)

IT 502847-05-4P, 5-Bromo-3,4,8-trimethoxy-1-methylxanthen-9-one  
502847-06-5P, 7-Chloro-3,4-dimethoxy-1,8-dimethylxanthen-9-one  
502847-09-8P 502847-10-1P  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of xanthones as agricultural fungicides)

IT 3282-30-2, Pivaloyl chloride 4659-45-4, 2,6-Dichlorobenzoyl chloride  
6443-69-2, 3,4,5-Trimethoxytoluene 33528-09-5, Benzoic acid, 2-hydroxy-6-methyl-, methyl ester  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of xanthones as agricultural fungicides)

IT 183726-43-4P, 1-(2,6-Dichlorophenyl)-1-(2-hydroxy-3,4-dimethoxy-6-methylphenyl)methanone 203109-73-3P **252955-12-7P**,  
1-(3-Chloro-6-hydroxy-2-methylphenyl)-1-(2,3,4-trimethoxy-6-methylphenyl)methanone 252955-16-1P, 2,2-Dimethylpropionic acid  
4-chloro-3-methyl-2-[1-(2,3,4-trimethoxy-6-methylphenyl)carbonyl]phenyl ester 502847-07-6P 502847-08-7P, 3-Chloro-6-(2,2-dimethylpropanoyloxy)-2-methylbenzoic acid  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of xanthones as agricultural fungicides)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

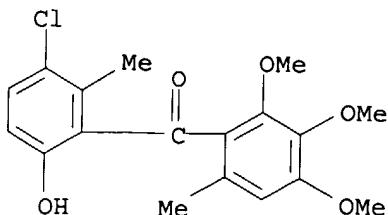
RE

(1) Avar, L; US 4661595 A 1987 HCPLUS  
(2) Basf Ag; DE 4301424 A 1994 HCPLUS  
(3) Interlab Corp; WO 9734482 A 1997 HCPLUS  
(4) Kato, T; HETEROCYCLES 1976, 1  
(5) Novonordisk As; EP 0507039 A 1992 HCPLUS

IT **252955-12-7P**, 1-(3-Chloro-6-hydroxy-2-methylphenyl)-1-(2,3,4-trimethoxy-6-methylphenyl)methanone  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of xanthones as agricultural fungicides)

RN 252955-12-7 HCPLUS

CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)

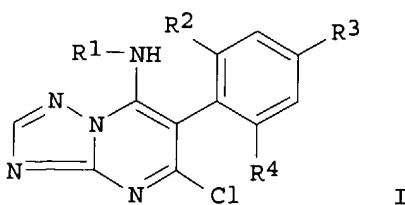


L31 ANSWER 9 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2002:675750 HCAPLUS  
 DN 137:181098  
 ED Entered STN: 08 Sep 2002  
 TI Synergistic fungicidal mixtures comprising a benzophenone derivative  
 IN Cotter, Henry Van Tuyl; Reichert, Gunter; Sieverding, Ewald; Jegerings,  
 Petrus Martinus Franciscus Emanuel  
 PA Basf Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 46 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A01N035-04  
 ICS A01N035-04; A01N059-20; A01N059-02; A01N055-00; A01N047-44;  
 A01N047-38; A01N047-14; A01N047-04; A01N043-82; A01N043-76;  
 A01N043-653; A01N043-60; A01N043-54; A01N043-42; A01N043-40;  
 A01N043-36; A01N043-32; A01N043-30; A01N037-50  
 CC 5-2 (Agrochemical Bioregulators)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002067679	A1	20020906	WO 2001-EP1823	20010219 <--
		W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
		RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
PRAI	WO 2001-EP1823			20010219	<--

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	WO 2002067679	ICM	A01N035-04
		ICS	A01N035-04; A01N059-20; A01N059-02; A01N055-00; A01N047-44; A01N047-38; A01N047-14; A01N047-04; A01N043-82; A01N043-76; A01N043-653; A01N043-60; A01N043-54; A01N043-42; A01N043-40; A01N043-36; A01N043-32; A01N043-30; A01N037-50

OS MARPAT 137:181098  
 GI



AB Fungicidal compns. for controlling the growth of phytopathogenic fungi comprise synergistically effective amts. of (a) a benzophenone derivative (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-

methylphenyl)methanone (REG 220899-03-6) and (b) at least one fungicidally active ingredient selected from groups (A), (B), (C), (D) and (E): (A) an ergosterol biosynthesis inhibitor; (B) a strobilurine derivative; (C) a melanin biosynthesis inhibitor; (D) a compound selected from the group consisting of acibenzolar, benomyl, captan, carboxin, chlorothalonil, copper, cyprodinil, dinocap, dithianon, dimethomorph, dodine, ethirimol, famoxadone, fenpiclonil, fluazinam, mancozeb, metalaxyl, pyrifenoxy, sulfur, vinclozolin; and (E) a triazolopyrimidine I (Markush included).

ST synergism fungicide benzophenone deriv mixt

IT Fungicides

(synergistic; synergistic fungicidal mixts. comprising benzophenone derivative)

IT 220899-03-6

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(mixts. with fungicides; synergistic fungicidal compns. containing)

IT 7440-50-8D, Copper, compds., mixture with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone

368872-60-0 451486-11-6 451486-12-7

451486-13-8 451486-14-9 451486-15-0

451486-16-1 451486-17-2 451486-18-3

451486-19-4 451486-20-7 451486-21-8

451486-22-9 451486-23-0 451486-24-1

451486-25-2 451486-26-3 451486-27-4

451486-28-5 451486-29-6 451486-30-9

451486-31-0 451486-32-1 451486-33-2

451486-34-3 451486-35-4 451486-36-5

451486-37-6 451486-38-7 451486-39-8

451486-40-1 451486-41-2 451486-42-3

451486-43-4 451486-44-5 451486-45-6

451486-46-7 451486-47-8 451486-48-9

451486-49-0 451486-50-3 451486-51-4

451486-52-5 451486-53-6 451486-54-7

451486-55-8 451486-56-9 451486-57-0

451486-58-1 451486-59-2 451486-60-5

451486-61-6

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(synergistic fungicidal compns. containing)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) American Cyanamid Co; EP 0897904 A 1999 HCPLUS

(2) American Cyanamid Co; EP 1023834 A 2000 HCPLUS

(3) American Cyanamid Co; EP 1023837 A 2000 HCPLUS

(4) Novartis Erfind Verwalt GmbH; WO 0072677 A 2000 HCPLUS

(5) Novartis Erfind Verwalt GmbH; WO 0076317 A 2000 HCPLUS

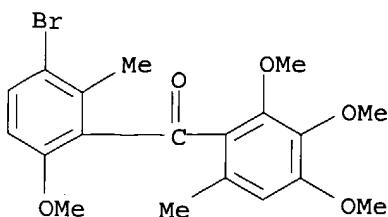
IT 220899-03-6

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(mixts. with fungicides; synergistic fungicidal compns. containing)

RN 220899-03-6 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



IT 368872-60-0 451486-11-6 451486-12-7  
 451486-13-8 451486-14-9 451486-15-0  
 451486-16-1 451486-17-2 451486-18-3  
 451486-19-4 451486-20-7 451486-21-8  
 451486-22-9 451486-23-0 451486-24-1  
 451486-25-2 451486-26-3 451486-27-4  
 451486-28-5 451486-29-6 451486-30-9  
 451486-31-0 451486-32-1 451486-33-2  
 451486-34-3 451486-35-4 451486-36-5  
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 451486-43-4 451486-44-5 451486-45-6  
 451486-46-7 451486-47-8 451486-48-9  
 451486-49-0 451486-50-3 451486-51-4  
 451486-52-5 451486-53-6 451486-54-7  
 451486-55-8 451486-56-9 451486-57-0  
 451486-58-1 451486-59-2 451486-60-5  
 451486-61-6

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal compns. containing)

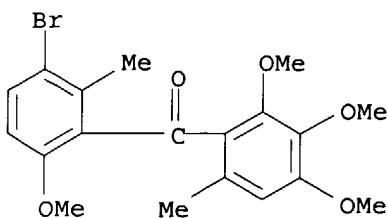
RN 368872-60-0 HCPLUS

CN Benzeneacetic acid, 2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]-.alpha.- (methoxymethylene)-, methyl ester, (.alpha.E)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5

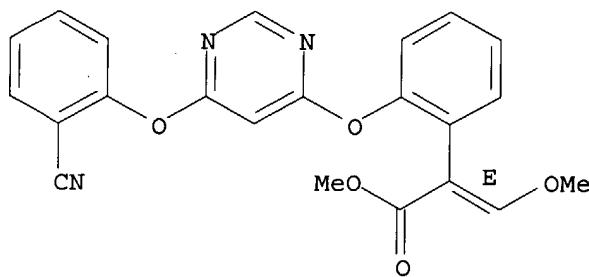


CM 2

CRN 131860-33-8

CMF C22 H17 N3 O5

Double bond geometry as shown.



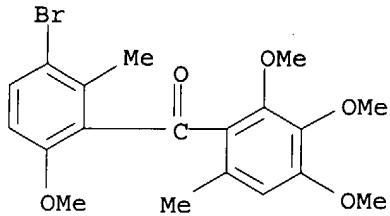
RN 451486-11-6 HCPLUS

CN 1,2,3-Benzothiadiazole-7-carbothioic acid, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

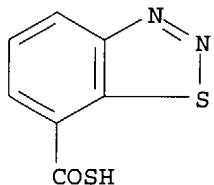
CMF C19 H21 Br O5



CM 2

CRN 126448-41-7

CMF C7 H4 N2 O S2



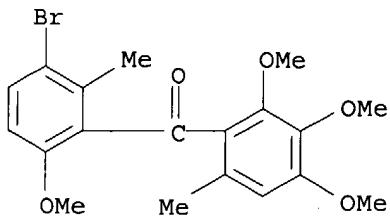
RN 451486-12-7 HCPLUS

CN Carbamic acid, [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) methanone (9CI) (CA INDEX NAME)

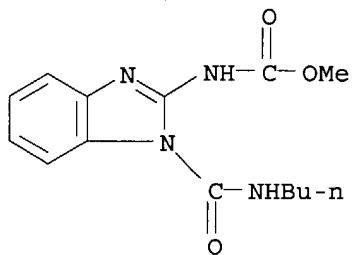
CM 1

CRN 220899-03-6

CMF C19 H21 Br O5

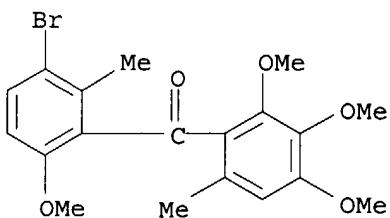


CM 2

CRN 17804-35-2  
CMF C14 H18 N4 O3

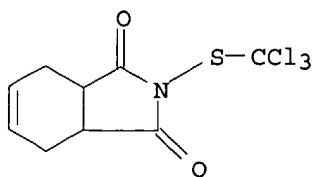
RN 451486-13-8 HCAPLUS  
 CN 1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6  
CMF C19 H21 Br O5

CM 2

CRN 133-06-2  
CMF C9 H8 Cl3 N O2 S



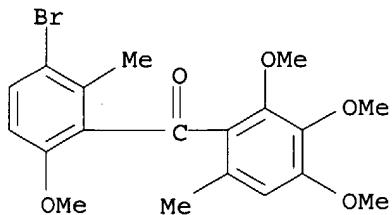
RN 451486-14-9 HCAPLUS

CN 1,4-Oxathiin-3-carboxamide, 5,6-dihydro-2-methyl-N-phenyl-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

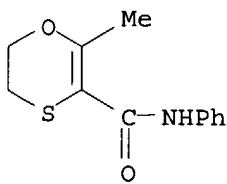
CMF C19 H21 Br O5



CM 2

CRN 5234-68-4

CMF C12 H13 N O2 S



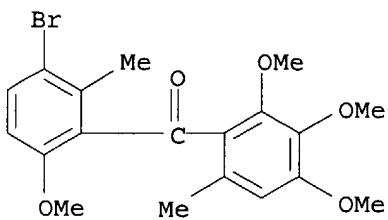
RN 451486-15-0 HCAPLUS

CN 1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

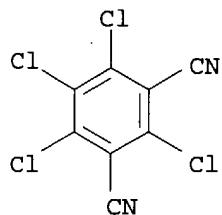
CM 1

CRN 220899-03-6

CMF C19 H21 Br O5



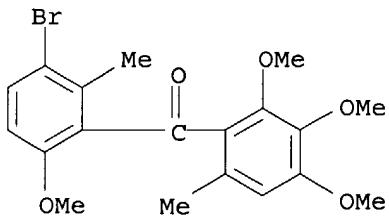
CM 2

CRN 1897-45-6  
CMF C8 Cl4 N2

RN 451486-16-1 HCAPLUS

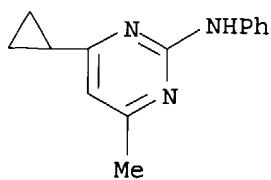
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 4-cyclopropyl-6-methyl-N-phenyl-2-pyrimidinamine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6  
CMF C19 H21 Br 05

CM 2

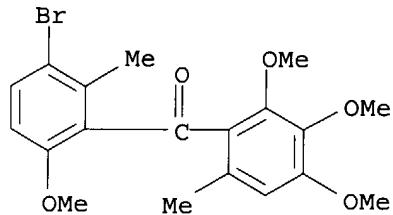
CRN 121552-61-2  
CMF C14 H15 N3



RN 451486-17-2 HCAPLUS  
 CN 2-Butenoic acid, 2(or 4)-isoctyl-4,6(or 2,6)-dinitrophenyl ester, mixt.  
 with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

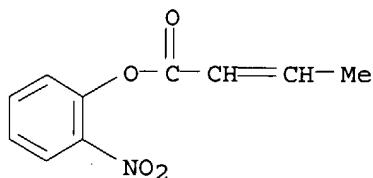
CM 1

CRN 220899-03-6  
 CMF C19 H21 Br O5



CM 2

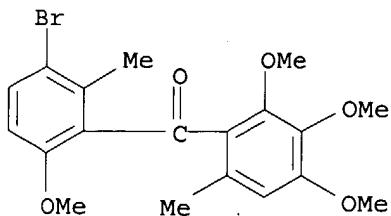
CRN 39300-45-3  
 CMF C18 H24 N2 O6  
 CCI IDS

D1-NO<sub>2</sub>D1- (C<sub>8</sub>H<sub>17</sub>)

RN 451486-18-3 HCAPLUS  
 CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

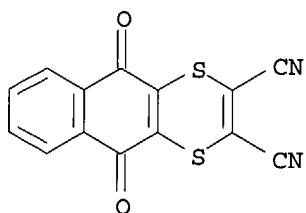
CM 1

CRN 220899-03-6  
 CMF C19 H21 Br O5



CM 2

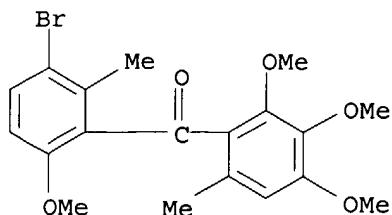
CRN 3347-22-6  
 CMF C14 H4 N2 O2 S2



RN 451486-19-4 HCPLUS  
 CN Morpholine, 4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl) methanone (9CI) (CA INDEX NAME)

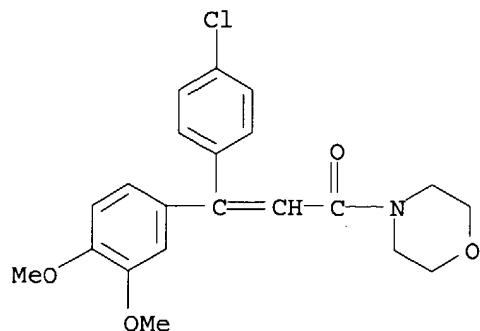
CM 1

CRN 220899-03-6  
 CMF C19 H21 Br O5



CM 2

CRN 110488-70-5  
 CMF C21 H22 Cl N O4



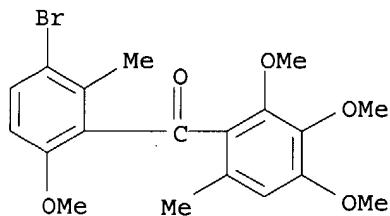
RN 451486-20-7 HCAPLUS

CN Guanidine, dodecyl-, monoacetate, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5



CM 2

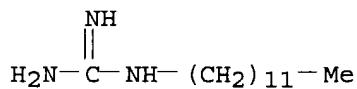
CRN 2439-10-3

CMF C13 H29 N3 . C2 H4 O2

CM 3

CRN 112-65-2

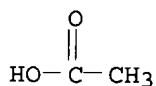
CMF C13 H29 N3



CM 4

CRN 64-19-7

CMF C2 H4 O2



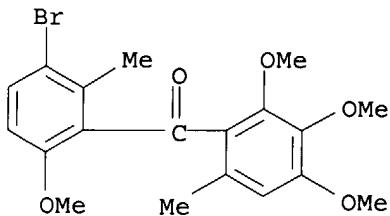
RN 451486-21-8 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-butyl-2-(ethylamino)-6-methyl-4 (1H)-pyrimidinone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

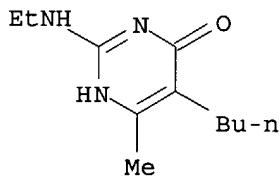
CMF C19 H21 Br O5



CM 2

CRN 23947-60-6

CMF C11 H19 N3 O



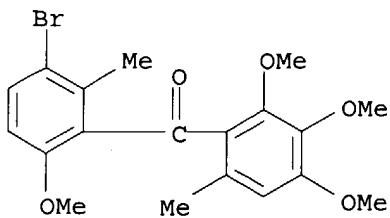
RN 451486-22-9 HCPLUS

CN 2,4-Oxazolidinedione, 5-methyl-5-(4-phenoxyphenyl)-3-(phenylamino)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

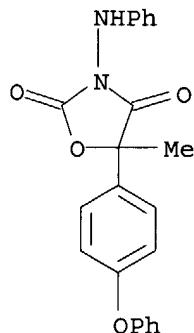
CM 1

CRN 220899-03-6

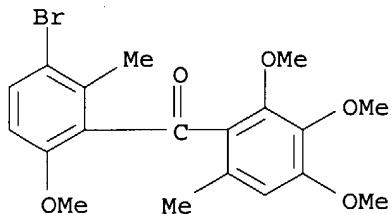
CMF C19 H21 Br O5



CM 2

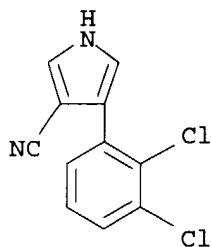
CRN 131807-57-3  
CMF C22 H18 N2 O4RN 451486-23-0 HCAPLUS  
CN 1H-Pyrrole-3-carbonitrile, 4-(2,3-dichlorophenyl)-, mixt. with  
(3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-  
methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6  
CMF C19 H21 Br O5

CM 2

CRN 74738-17-3  
CMF C11 H6 Cl2 N2



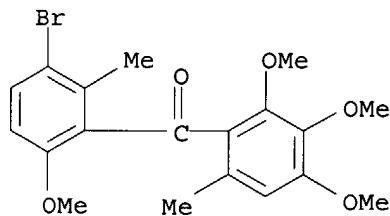
RN 451486-24-1 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 3-chloro-N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2-pyridinamine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

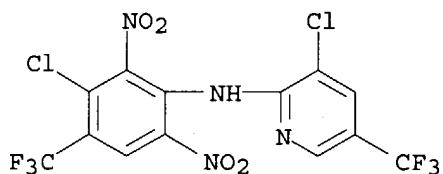
CMF C19 H21 Br 05



CM 2

CRN 79622-59-6

CMF C13 H4 Cl2 F6 N4 O4



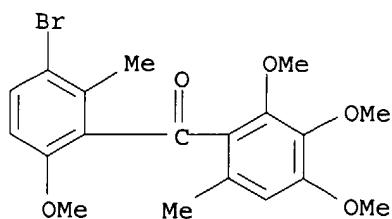
RN 451486-25-2 HCAPLUS

CN Manganese, [2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-.kappa.S,.kappa.S'-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) methanone and [2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-.kappa.S,.kappa.S' zinc (9CI) (CA INDEX NAME)

CM 1

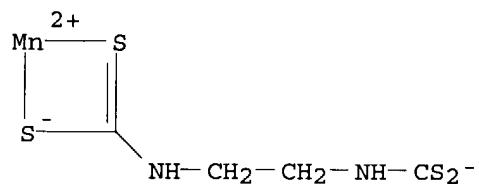
CRN 220899-03-6

CMF C19 H21 Br 05



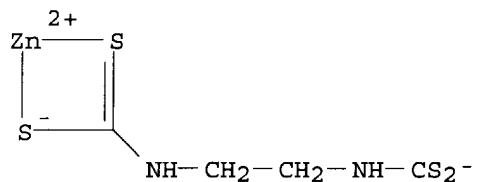
CM 2

CRN 12427-38-2  
 CMF C4 H6 Mn N2 S4  
 CCI CCS



CM 3

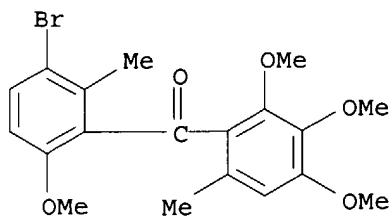
CRN 12122-67-7  
 CMF C4 H6 N2 S4 Zn  
 CCI CCS



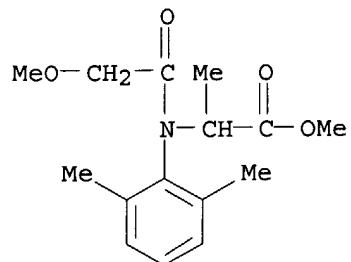
RN 451486-26-3 HCAPLUS  
 CN Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt.  
 with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6  
 CMF C19 H21 Br O5

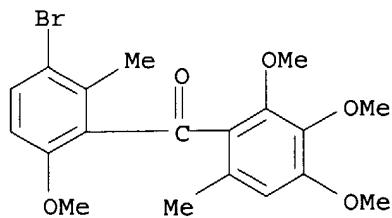


CM 2

CRN 57837-19-1  
CMF C15 H21 N O4

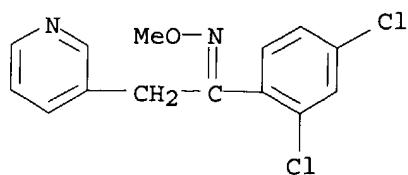
RN 451486-27-4 HCAPLUS  
 CN Ethanone, 1-(2,4-dichlorophenyl)-2-(3-pyridinyl)-, O-methyloxime, mixt.  
 with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6  
CMF C19 H21 Br O5

CM 2

CRN 88283-41-4  
CMF C14 H12 Cl2 N2 O



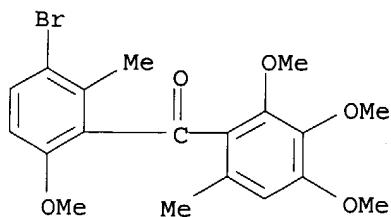
RN 451486-28-5 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with sulfur (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5



CM 2

CRN 7704-34-9

CMF S

S

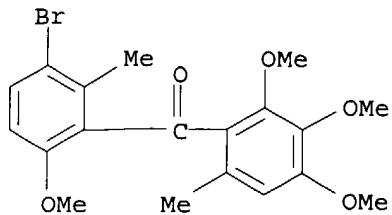
RN 451486-29-6 HCPLUS

CN 2,4-Oxazolidinedione, 3-(3,5-dichlorophenyl)-5-ethenyl-5-methyl-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

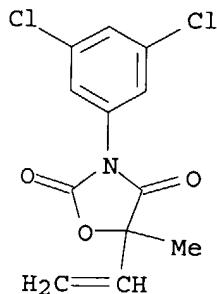
CRN 220899-03-6

CMF C19 H21 Br O5



CM 2

CRN 50471-44-8  
 CMF C12 H9 Cl2 N O3

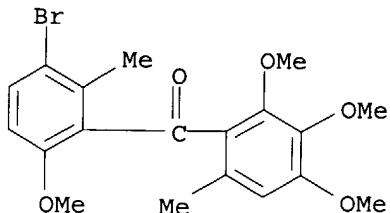


RN 451486-30-9 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with rel-1-[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

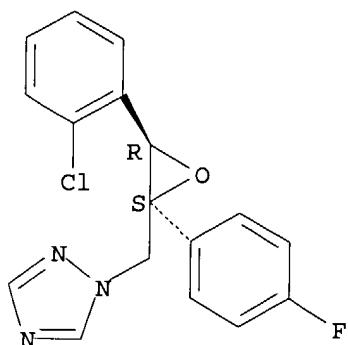
CRN 220899-03-6  
 CMF C19 H21 Br O5



CM 2

CRN 133855-98-8  
 CMF C17 H13 Cl F N3 O

Relative stereochemistry.



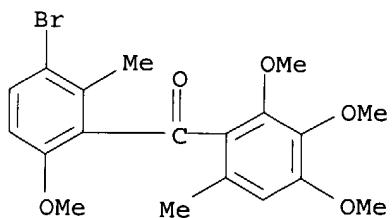
RN 451486-31-0 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 1-[[bis(4-fluorophenyl)methylsilyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

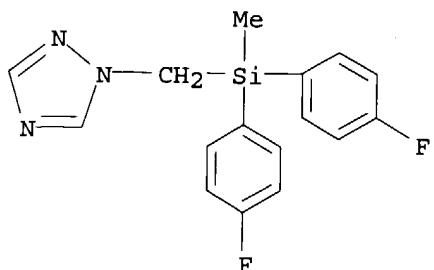
CMF C19 H21 Br O5



CM 2

CRN 85509-19-9

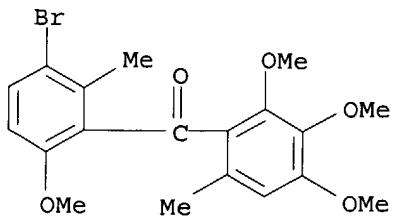
CMF C16 H15 F2 N3 Si



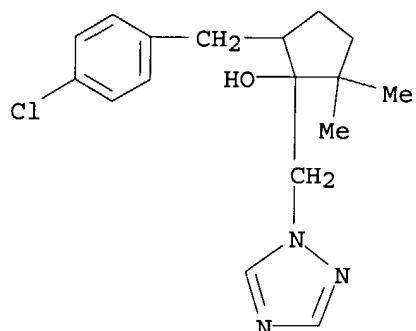
RN 451486-32-1 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-[(4-chlorophenyl)methyl]-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6  
CMF C19 H21 Br O5

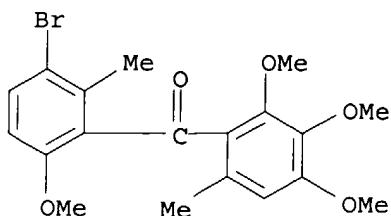
CM 2

CRN 125116-23-6  
CMF C17 H22 Cl N3 O

RN 451486-33-2 HCAPLUS

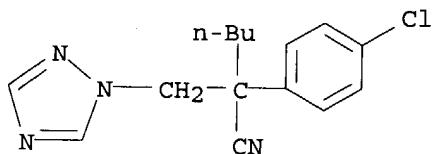
CN 1H-1,2,4-Triazole-1-propanenitrile, .alpha.-butyl-.alpha.-(4-chlorophenyl)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6  
CMF C19 H21 Br O5

CM 2

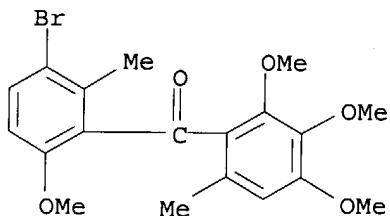
CRN 88671-89-0  
 CMF C15 H17 Cl N4



RN 451486-34-3 HCAPLUS  
 CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 1-[2-(2,4-dichlorophenyl)pentyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

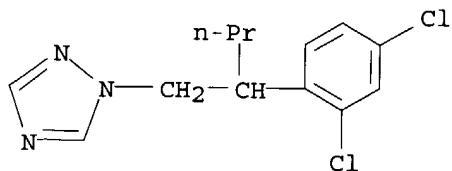
CM 1

CRN 220899-03-6  
 CMF C19 H21 Br O5



CM 2

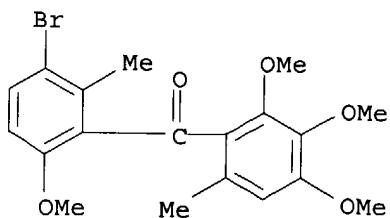
CRN 66246-88-6  
 CMF C13 H15 Cl2 N3



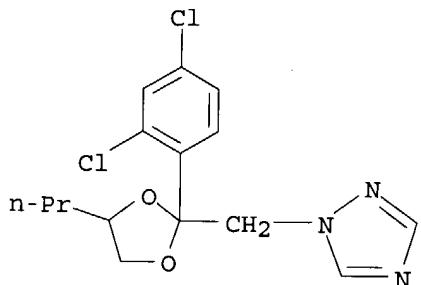
RN 451486-35-4 HCAPLUS  
 CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6  
 CMF C19 H21 Br O5

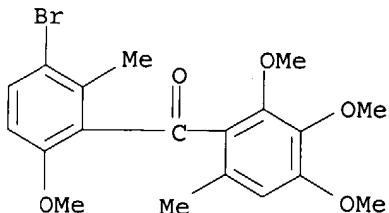


CM 2

CRN 60207-90-1  
CMF C15 H17 Cl2 N3 O2

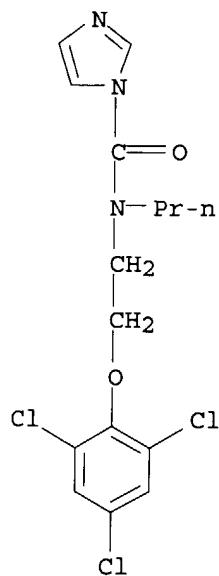
RN 451486-36-5 HCPLUS  
 CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with N-propyl-N-[2-(2,4,6-trichlorophenoxy)ethyl]-1H-imidazole-1-carboxamide (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6  
CMF C19 H21 Br O5

CM 2

CRN 67747-09-5  
CMF C15 H16 Cl3 N3 O2



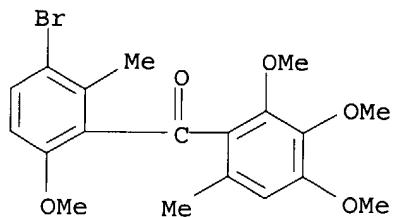
RN 451486-37-6 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with .alpha.-[2-(4-chlorophenyl)ethyl]-.alpha.- (1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

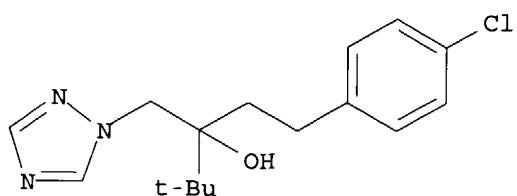
CMF C19 H21 Br O5



CM 2

CRN 107534-96-3

CMF C16 H22 Cl N3 O



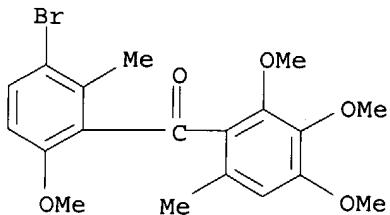
RN 451486-38-7 HCPLUS

CN 2-Butanone, 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl) methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

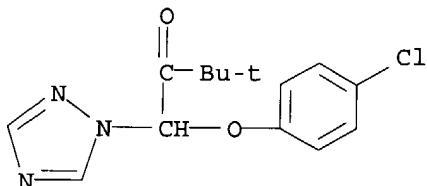
CMF C19 H21 Br O5



CM 2

CRN 43121-43-3

CMF C14 H16 Cl N3 O2



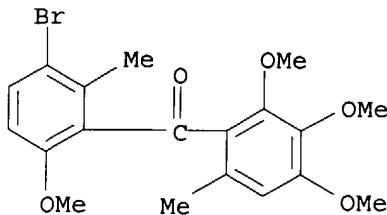
RN 451486-39-8 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with .beta.- (4-chlorophenoxy)-.alpha.- (1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol (9CI) (CA INDEX NAME)

CM 1

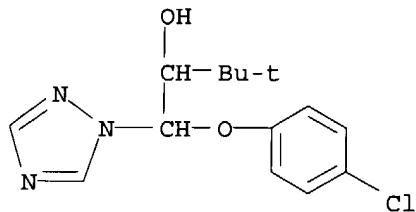
CRN 220899-03-6

CMF C19 H21 Br O5



CM 2

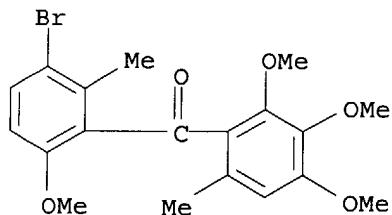
CRN 55219-65-3  
 CMF C14 H18 Cl N3 O2



RN 451486-40-1 HCAPLUS  
 CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with .alpha.- (2-chlorophenyl)-.alpha.- (4-chlorophenyl)-5-pyrimidinemethanol (9CI) (CA INDEX NAME)

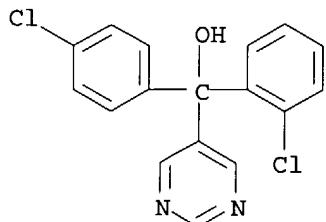
CM 1

CRN 220899-03-6  
 CMF C19 H21 Br O5



CM 2

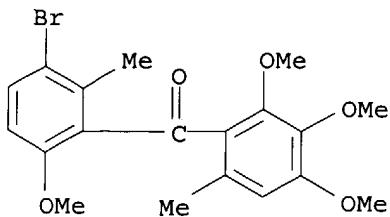
CRN 60168-88-9  
 CMF C17 H12 Cl2 N2 O



RN 451486-41-2 HCAPLUS  
 CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with rel-(2R,6S)-4-[3-[4-(1,1-dimethylethyl)phenyl]-2-methylpropyl]-2,6-dimethylmorpholine (9CI) (CA INDEX NAME)

CM 1

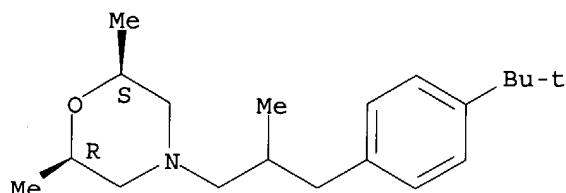
CRN 220899-03-6  
 CMF C19 H21 Br O5



CM 2

CRN 67564-91-4  
 CMF C20 H33 N O

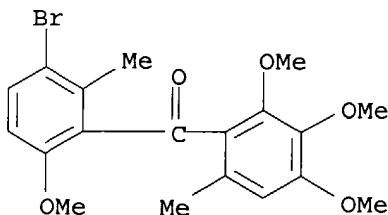
Relative stereochemistry.



RN 451486-42-3 HCPLUS  
 CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 1-[3-[4-(1,1-dimethylethyl)phenyl]-2-methylpropyl]piperidine (9CI) (CA INDEX NAME)

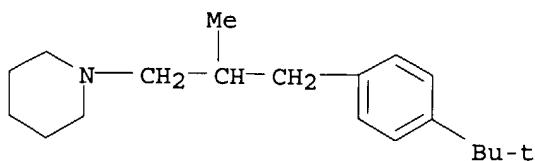
CM 1

CRN 220899-03-6  
 CMF C19 H21 Br O5



CM 2

CRN 67306-00-7  
 CMF C19 H31 N



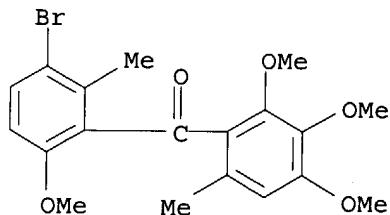
RN 451486-43-4 HCAPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 8-(1,1-dimethylethyl)-N-ethyl-N-propyl-1,4-dioxaspiro[4.5]decane-2-methanamine (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

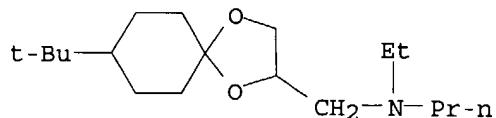
CMF C19 H21 Br O5



CM 2

CRN 118134-30-8

CMF C18 H35 N O2



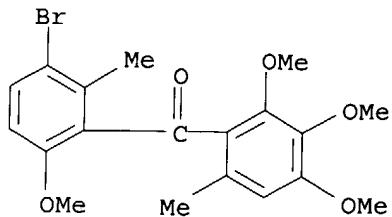
RN 451486-44-5 HCAPLUS

CN Formamide, N,N'-(1,4-piperazinediylbis(2,2,2-trichloroethylidene)]bis-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

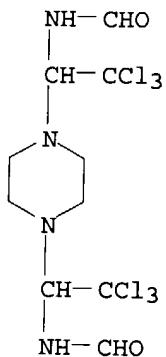
CM 1

CRN 220899-03-6

CMF C19 H21 Br O5



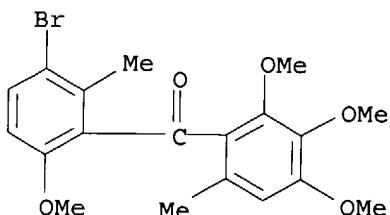
CM 2

CRN 26644-46-2  
CMF C10 H14 Cl6 N4 O2

RN 451486-45-6 HCAPLUS

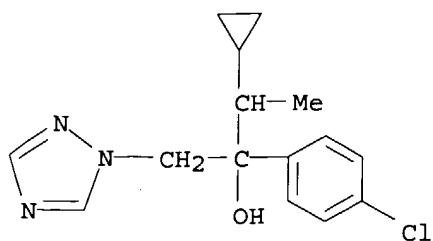
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with .alpha.- (4-chlorophenyl)-.alpha.- (1-cyclopropylethyl)-1H-1,2,4-triazole-1-ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6  
CMF C19 H21 Br O5

CM 2

CRN 94361-06-5  
CMF C15 H18 Cl N3 O



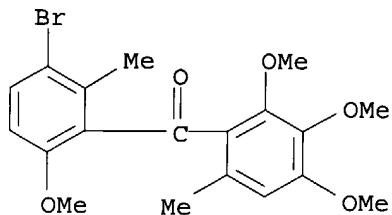
RN 451486-46-7 HCPLUS

CN Benzeneacetic acid, .alpha.- (methoxyimino)-2-[(2-methylphenoxy)methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5

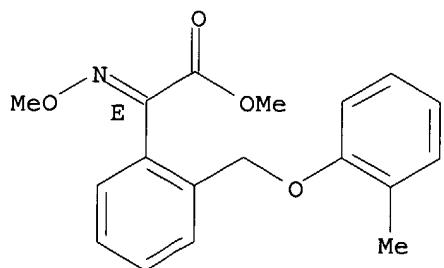


CM 2

CRN 143390-89-0

CMF C18 H19 N O4

Double bond geometry as shown.

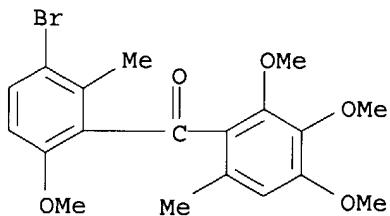


RN 451486-47-8 HCPLUS

CN Cyclopropanecarboxamide, 2,2-dichloro-N-[1-(4-chlorophenyl)ethyl]-1-ethyl-3-methyl-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

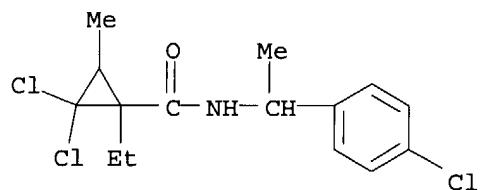
CM 1

CRN 220899-03-6  
 CMF C19 H21 Br O5



CM 2

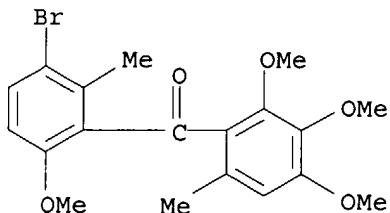
CRN 104030-54-8  
 CMF C15 H18 Cl3 N O



RN 451486-48-9 HCAPLUS  
 CN 2 (3H)-Benzothiazolone, 4-chloro-3-methyl-, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) methanone (9CI) (CA INDEX NAME)

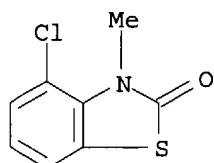
CM 1

CRN 220899-03-6  
 CMF C19 H21 Br O5



CM 2

CRN 63755-05-5  
 CMF C8 H6 Cl N O S



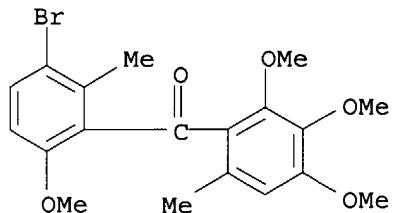
RN 451486-49-0 HCAPLUS

CN Butanamide, 2-cyano-N-[(1R)-1-(2,4-dichlorophenyl)ethyl]-3,3-dimethyl-,  
mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-  
methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5

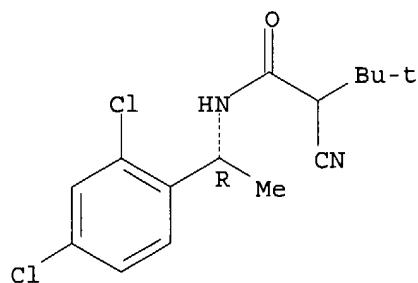


CM 2

CRN 139920-32-4

CMF C15 H18 Cl2 N2 O

Absolute stereochemistry.



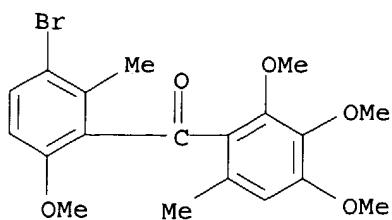
RN 451486-50-3 HCAPLUS

CN 4H-Pyrrolo[3,2,1-ij]quinolin-4-one, 1,2,5,6-tetrahydro-, mixt. with  
(3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-  
methylphenyl)methanone (9CI) (CA INDEX NAME)

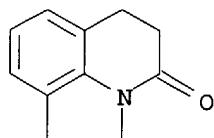
CM 1

CRN 220899-03-6

CMF C19 H21 Br O5



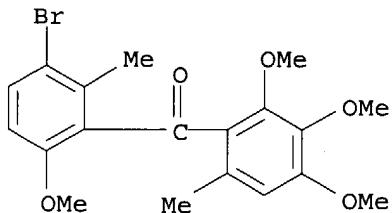
CM 2

CRN 57369-32-1  
CMF C11 H11 N O

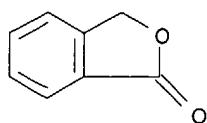
RN 451486-51-4 HCPLUS

CN 1(3H)-Isobenzofuranone, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6  
CMF C19 H21 Br O5

CM 2

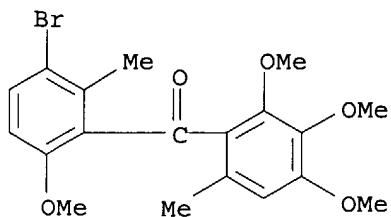
CRN 87-41-2  
CMF C8 H6 O2

RN 451486-52-5 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-methyl-1,2,4-triazolo[3,4-b]benzothiazole (9CI) (CA INDEX NAME)

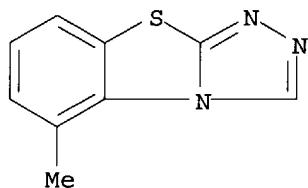
CM 1

CRN 220899-03-6  
CMF C19 H21 Br 05



CM 2

CRN 41814-78-2  
CMF C9 H7 N3 S

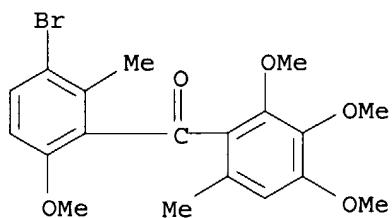


RN 451486-53-6 HCAPLUS

CN Propanamide, N-(1-cyano-1,2-dimethylpropyl)-2-(2,4-dichlorophenoxy)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

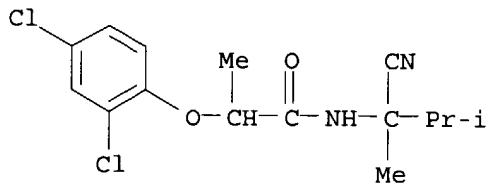
CM 1

CRN 220899-03-6  
CMF C19 H21 Br 05



CM 2

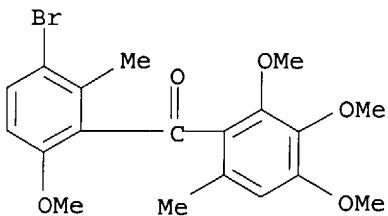
CRN 115852-48-7  
CMF C15 H18 Cl2 N2 O2



RN 451486-54-7 HCAPLUS  
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-chloro-6-(2-chloro-6-fluorophenyl)-N-(2,2,2-trifluoroethyl) [1,2,4]triazolo[1,5-a]pyrimidin-7-amine (9CI) (CA INDEX NAME)

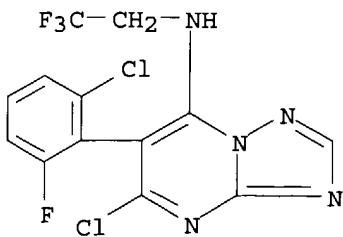
CM 1

CRN 220899-03-6  
CMF C19 H21 Br 05



CM 2

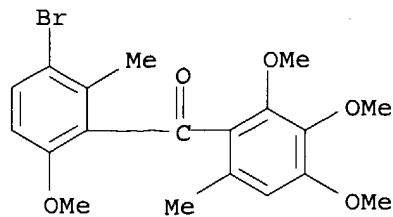
CRN 214633-87-1  
CMF C13 H7 C12 F4 N5



RN 451486-55-8 HCPLUS  
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5-chloro-N-(2,2,2-trifluoro-1-methylethyl)-6-(2,4,6-trifluorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-amine (9CI) (CA INDEX NAME)

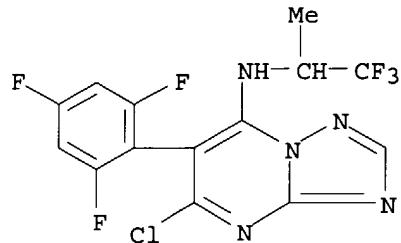
CM 1

CRN 220899-03-6  
 CMF C19 H21 Br O5



CM 2

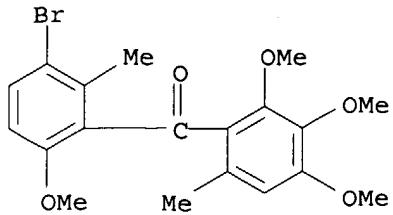
CRN 214633-94-0  
 CMF C14 H8 Cl F6 N5



RN 451486-56-9 HCAPLUS  
 CN Manganese, [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-.kappa.S,.kappa.S']-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone, 4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]morpholine and [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-.kappa.S,.kappa.S']zinc (9CI) (CA INDEX NAME)

CM 1

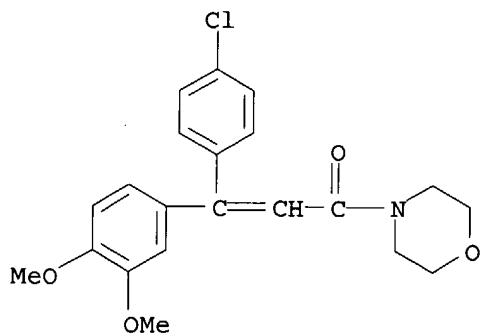
CRN 220899-03-6  
 CMF C19 H21 Br O5



CM 2

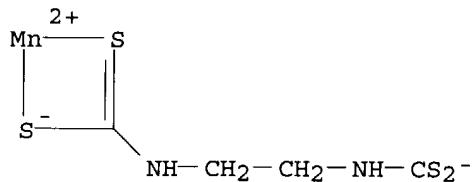
CRN 110488-70-5

CMF C21 H22 Cl N O4



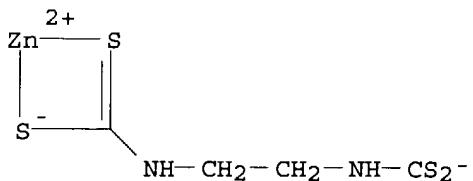
CM 3

CRN 12427-38-2  
CMF C4 H6 Mn N2 S4  
CCI CCS



CM 4

CRN 12122-67-7  
CMF C4 H6 N2 S4 Zn  
CCI CCS

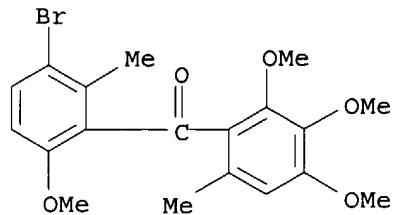


RN 451486-57-0 HCAPLUS

CN Benzeneacetic acid, .alpha.- (methoxyimino)-2- [(2-methylphenoxy)methyl] - , methyl ester, (.alpha.E) - , mixt. with (3-bromo-6-methoxy-2- methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) methanone and rel-1- [(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl] -1H- 1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

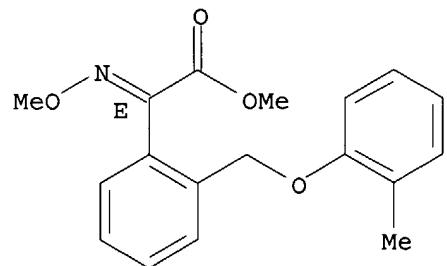
CRN 220899-03-6  
 CMF C19 H21 Br O5



CM 2

CRN 143390-89-0  
 CMF C18 H19 N O4

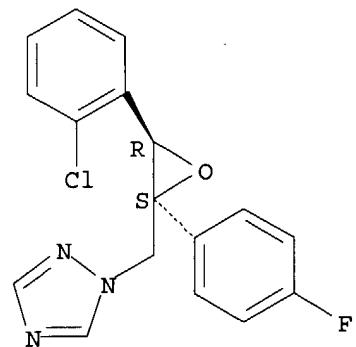
Double bond geometry as shown.



CM 3

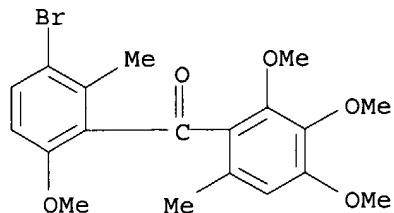
CRN 133855-98-8  
 CMF C17 H13 Cl F N3 O

Relative stereochemistry.



RN 451486-58-1 HCAPLUS  
 CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with copper chloride oxide hydrate (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6  
CMF C19 H21 Br O5

CM 2

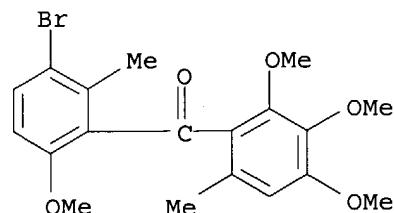
CRN 1332-40-7  
CMF Unspecified  
CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 451486-59-2 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with rel-1-[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole and (2R,6S)-rel-4-[3-[4-(1,1-dimethylethyl)phenyl]-2-methylpropyl]-2,6-dimethylmorpholine (9CI) (CA INDEX NAME)

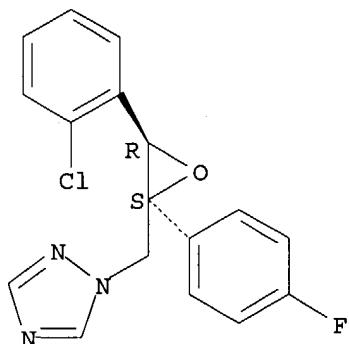
CM 1

CRN 220899-03-6  
CMF C19 H21 Br O5

CM 2

CRN 133855-98-8  
CMF C17 H13 Cl F N3 O

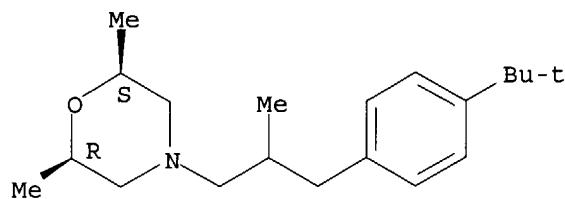
Relative stereochemistry.



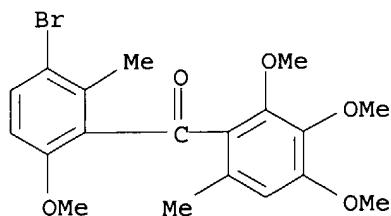
CM 3

CRN 67564-91-4  
CMF C20 H33 N O

Relative stereochemistry.

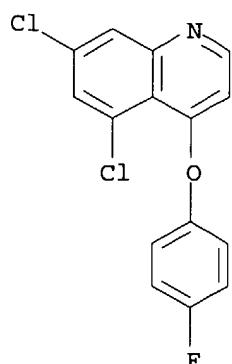
RN 451486-60-5 HCAPLUS  
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 5,7-dichloro-4-(4-fluorophenoxy)quinoline (9CI)  
(CA INDEX NAME)

CM 1

CRN 220899-03-6  
CMF C19 H21 Br O5

CM 2

CRN 124495-18-7  
CMF C15 H8 Cl2 F N O



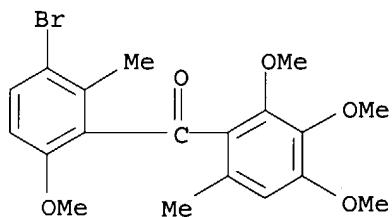
RN 451486-61-6 HCAPLUS

CN 1,2,3-Benzothiadiazole-7-carbothioic acid, S-methyl ester, mixt. with  
(3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-  
methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

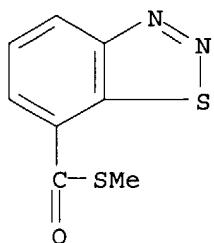
CMF C19 H21 Br 05



CM 2

CRN 135158-54-2

CMF C8 H6 N2 O S2



L31 ANSWER 10 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:615338 HCAPLUS

DN 137:151318

ED Entered STN: 16 Aug 2002

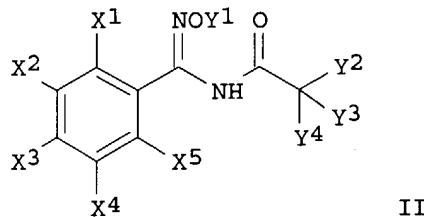
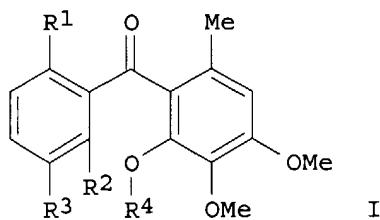
TI Synergistic fungicidal compositions containing a benzophenone and an oxime

ether derivative  
 IN Eicken, Karl; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz, Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus; Haden, Egon  
 PA Basf Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 25 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 IC ICM A01N035-04  
 ICS A01N037-52; A01N043-10; A01N043-56; A01N043-36; A01N043-50;  
 A01N043-78; A01N043-08; A01N043-58; A01N043-54  
 CC 5-2 (Agrochemical Bioregulators)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002062140	A1	20020815	WO 2002-EP414	20020117 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1365650	A1	20031203	EP 2002-729924	20020117 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	BR 2002006487	A	20040217	BR 2002-6487	20020117 <--
	JP 2004521896	T2	20040722	JP 2002-562152	20020117 <--
	US 2004054000	A1	20040318	US 2003-466332	20030714 <--
PRAI	DE 2001-10102281	A	20010118	<--	
	WO 2002-EP414	W	20020117	<--	

## CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002062140	ICM	A01N035-04	
	ICS	A01N037-52; A01N043-10; A01N043-56; A01N043-36; A01N043-50; A01N043-78; A01N043-08; A01N043-58; A01N043-54	
JP 2004521896	FTERM	4H011/AA01; 4H011/BA01; 4H011/BA06; 4H011/BB05; 4H011/BB06; 4H011/BC03; 4H011/BC05; 4H011/BC06; 4H011/BC07; 4H011/DA02; 4H011/DA15; 4H011/DA16; 4H011/DC05; 4H011/DC06; 4H011/DD03; 4H011/DF04	<--
US 2004054000	ECLA	A01N035/04	<--
OS	MARPAT 137:151318		
GI			



AB The invention relates to synergistic fungicidal compns. comprising benzophenones I (R1 = Cl, Me, MeO, AcO, pivaloyloxy or OH; R2 = Cl or Me; R3 = H, halo or Me; R4 = C1-6 alkyl or benzyl, whereby the Ph part of the benzyl group can bear a halo or Me substituent) and oxime ether derivs. II [X1 = C1-4 haloalkyl or haloalkoxy; X1-5 = H, halo, C1-4 alkyl, haloalkyl, alkoxy or haloalkoxy; Y1 = (un)substituted C1-4 alkyl, C2-6 alkenyl, alkynyl or C1-4 alkyl(C3-7)cycloalkyl; Y2 = (un)substituted Ph or heterocyclyl; Y3, Y4 = H, C1-4 alkyl, alkoxy, alkylthio, alkylamino, haloalkyl or haloalkoxy].

ST synergism fungicide benzophenone oxime ether derivs

IT Fungicides

(synergistic, agrochem.; compns. containing a benzophenone and an oxime ether derivative)

IT **445249-42-3 445249-43-4**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic fungicidal composition)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) American Cyanamid Co; EP 1023834 A 2000 HCPLUS
- (2) Basf Ag; DE 19722223 A 1998 HCPLUS
- (3) Nippon Soda Co; EP 0919126 A 1999 HCPLUS
- (4) Novartis-Erfindungen Verwal Tungsgesellschaft M B H; WO 0072678 A 2000 HCPLUS

IT **445249-42-3 445249-43-4**

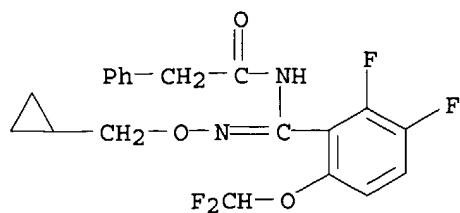
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic fungicidal composition)

RN 445249-42-3 HCPLUS

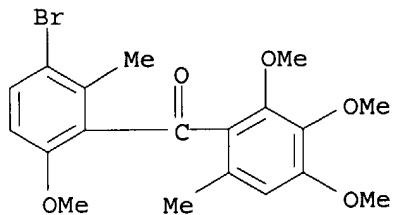
CN Benzeneacetamide, N-[[[cyclopropylmethoxy]amino][6-(difluoromethoxy)-2,3-difluorophenyl]methylene]-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 221201-92-9  
CMF C20 H18 F4 N2 O3



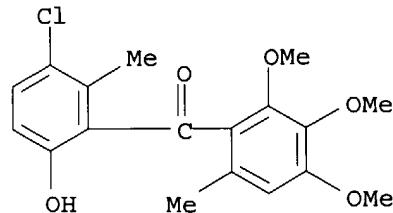
CM 2

CRN 220899-03-6  
CMF C19 H21 Br O5

RN 445249-43-4 HCAPLUS

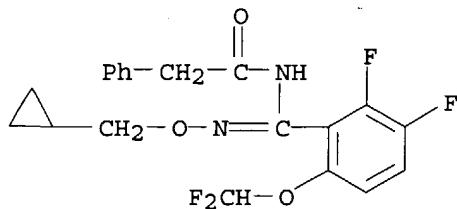
CN Benzeneacetamide, N-[(cyclopropylmethoxy)amino] [6-(difluoromethoxy)-2,3-difluorophenyl]methylene-, mixt. with (3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) methanone (9CI) (CA INDEX NAME)

CM 1

CRN 252955-12-7  
CMF C18 H19 Cl O5

CM 2

CRN 221201-92-9  
CMF C20 H18 F4 N2 O3



L31 ANSWER 11 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2002:555275 HCAPLUS  
 DN 137:105162  
 ED Entered STN: 26 Jul 2002  
 TI Synergistic fungicidal mixtures comprising benzophenone and imidazole derivatives  
 IN Ptock, Arne; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz, Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus; Haden, Egon  
 PA Basf Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 25 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 IC ICM A01N043-90  
 ICS A01N035-02; A01N035-06; A01N035-04; A01N043-90; A01N037-02; A01N035-06; A01N035-04  
 CC 5-2 (Agrochemical Bioregulators)  
 FAN.CNT 1

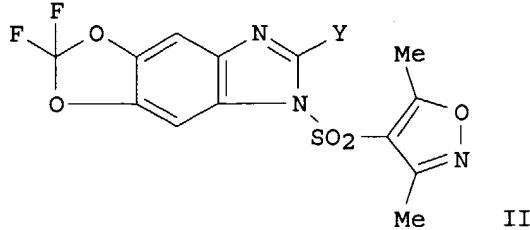
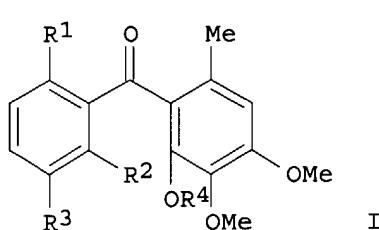
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002056689	A1	20020725	WO 2002-EP413	20020117 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	
	EP 1365654	A1	20031203	EP 2002-710801	20020117 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004523516	T2	20040805	JP 2002-557208	20020117 <--
	US 2004053984	A1	20040318	US 2003-466331	20030714 <--
PRAI	DE 2001-10102282	A	20010118	<--	
	WO 2002-EP413	W	20020117	<--	

## CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002056689	ICM	A01N043-90	
	ICS	A01N035-02; A01N035-06; A01N035-04; A01N043-90; A01N037-02; A01N035-06; A01N035-04	
JP 2004523516	FTERM	4H006/AA03; 4H006/AB03; 4H011/AA01; 4H011/BA01; 4H011/BA06; 4H011/BB04; 4H011/BB06; 4H011/BB09; 4H011/DD03; 4H011/DD04	<--

US 2004053984 ECLA A01N043/90  
 OS MARPAT 137:105162  
 GI

&lt;--



AB The title mixts. contain (a) benzophenones I, where R1 = chloro, Me, methoxy, acetoxy, pivaloyloxy or hydroxy; R2 = chloro or methyl; R3 =H, halogen or Me and R4 = C1-C6 alkyl or benzyl, where the Ph moiety of the benzyl group can be halo- or methyl-substituted; and (b) imidazole derivs. II, where Y = bromine or chlorine.

ST synergism fungicide benzophenone imidazole derivs

IT Fungicides

(synergistic, agrochem.; mixts. comprising benzophenone and imidazole derivs.)

IT 443102-06-5 443102-09-8

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal mixture)

IT 188026-76-8D, mixts. with benzophenones 188027-78-3D, mixts. with benzophenones

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal mixts.)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) American Cyanamid Co; EP 0727141 A 1996 HCPLUS
- (2) American Cyanamid Co; EP 0897904 A 1999 HCPLUS
- (3) American Cyanamid Co; EP 0899255 A 1999 HCPLUS
- (4) American Cyanamid Co; EP 0967196 A 1999 HCPLUS
- (5) American Cyanamid Co; EP 1023834 A 2000 HCPLUS
- (6) Bayer Ag; DE 19716256 A 1998 HCPLUS
- (7) Tiemann, R; WO 9706171 A 1997 HCPLUS

IT 443102-06-5 443102-09-8

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal mixture)

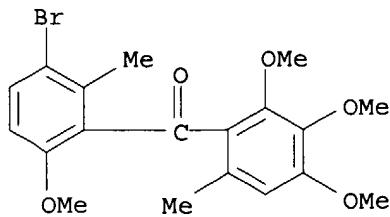
RN 443102-06-5 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 6-bromo-5-[(3,5-dimethyl-4-isoxazolyl)sulfonyl]-2,2-difluoro-5H-1,3-dioxolo[4,5-f]benzimidazole (9CI) (CA INDEX NAME)

CM 1

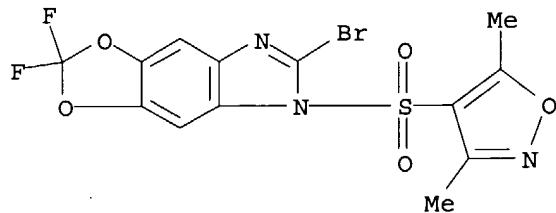
CRN 220899-03-6

CMF C19 H21 Br O5



CM 2

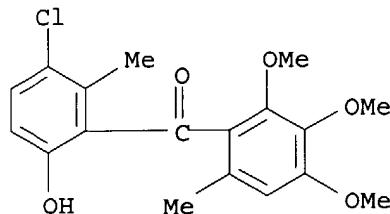
CRN 188026-76-8  
 CMF C13 H8 Br F2 N3 O5 S



RN 443102-09-8 HCAPLUS  
 CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)-, mixt. with 6-bromo-5-[(3,5-dimethyl-4-isoxazolyl)sulfonyl]-2,2-difluoro-5H-1,3-dioxolo[4,5-f]benzimidazole (9CI) (CA INDEX NAME)

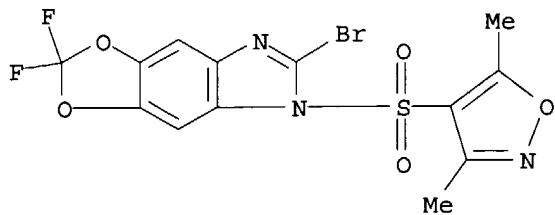
CM 1

CRN 252955-12-7  
 CMF C18 H19 Cl O5



CM 2

CRN 188026-76-8  
 CMF C13 H8 Br F2 N3 O5 S



L31 ANSWER 12 OF 27 HCPLUS COPYRIGHT 2004 ACS on STN  
 AN 2002:555274 HCPLUS  
 DN 137:105161  
 ED Entered STN: 26 Jul 2002  
 TI Synergistic fungicidal mixtures of benzophenones and N-biphenylnicotinamides  
 IN Eicken, Karl; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz, Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus; Haden, Egon; Hampel, Manfred  
 PA Basf Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 27 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 IC ICM A01N043-40  
 ICS A01N043-40; A01N037-02; A01N035-06; A01N035-04  
 CC 5-2 (Agrochemical Bioregulators)

FAN.CNT 1

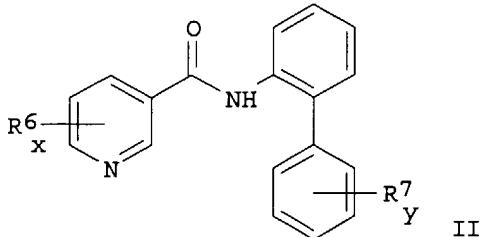
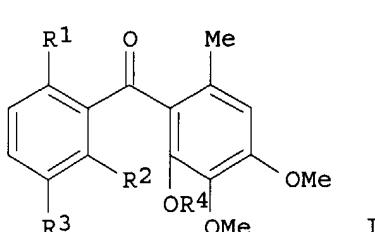
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002056688	A1	20020725	WO 2002-EP410	20020117 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP	1365652	A1	20031203	EP 2002-710800	20020117 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
EE	200300336	A	20031215	EE 2003-336	20020117 <--
BR	2002006385	A	20040203	BR 2002-6385	20020117 <--
JP	2004523515	T2	20040805	JP 2002-557207	20020117 <--
US	2004077692	A1	20040422	US 2003-466165	20030714 <--
PRAI	DE 2001-10102311	A	20010118	<--	
	WO 2002-EP410	W	20020117	<--	

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002056688	ICM	A01N043-40	
	ICS	A01N043-40; A01N037-02; A01N035-06; A01N035-04	
JP 2004523515	FTERM	4H006/AA03; 4H006/AB03; 4H011/AA01; 4H011/AA03; 4H011/BA01; 4H011/BB05; 4H011/BB06; 4H011/BB09; 4H011/DD03; 4H011/DD04	<--

US 2004077692 ECLA A01N043/40  
 OS MARPAT 137:105161  
 GI

&lt;--



AB The title mixts. contain (a) benzophenones I, wherein R1 represents Cl, Me, methoxy, acetoxy, pivaloyloxy or hydroxy; R2 represents Cl or Me; R3 represents H, halogen or Me; and R4 represents C1-C6 alkyl or benzyl, whereby the Ph part of the benzyl group may carry a halogen or Me substituent; and (b) N-biphenylnicotinamides II, wherein R6 and R7 represent halogen, nitro, cyano, alkyl, alkenyl, alkynyl, haloalkyl, halogenalkenyl, haloalkynyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfinyl or alkylsulfonyl; x is 1, 2, 3 or 4; and y is 1, 2, 3, 4 or 5.

ST synergism fungicide benzophenone nicotinamide derivs  
 IT Fungicides

(synergistic, agrochem; mixts. of benzophenones and N-biphenylnicotinamides)

IT 443102-04-3 443102-05-4

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal mixture)

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) American Cyanamid Co; EP 0727141 A 1996 HCPLUS
- (2) American Cyanamid Co; EP 0897904 A 1999 HCPLUS
- (3) American Cyanamid Co; EP 0899255 A 1999 HCPLUS
- (4) American Cyanamid Co; EP 0967196 A 1999 HCPLUS
- (5) American Cyanamid Co; EP 1023834 A 2000 HCPLUS
- (6) Schelberger, K; WO 9931951 A 1999 HCPLUS
- (7) Schelberger, K; WO 9931976 A 1999 HCPLUS
- (8) Schelberger, K; WO 9931979 A 1999 HCPLUS
- (9) Schelberger, K; WO 9931981 A 1999 HCPLUS
- (10) Schelberger, K; WO 9931983 A 1999 HCPLUS
- (11) Schelberger, K; WO 9931984 A 1999 HCPLUS
- (12) Schelberger, K; WO 9931985 A 1999 HCPLUS

IT 443102-04-3 443102-05-4

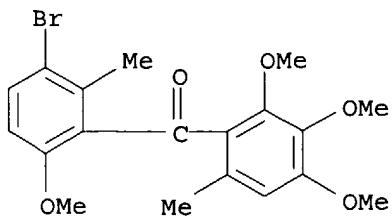
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal mixture)

RN 443102-04-3 HCPLUS

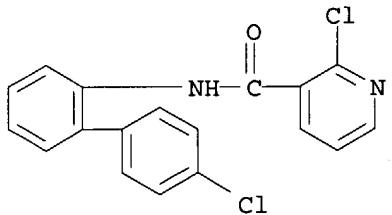
CN 3-Pyridinecarboxamide, 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

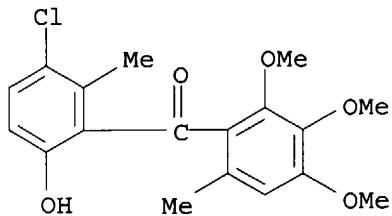
CRN 220899-03-6  
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CM 2

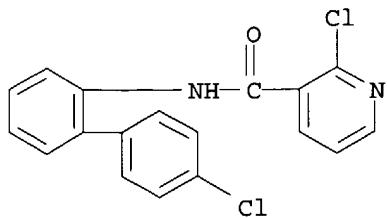
CRN 188425-85-6  
CMF C18 H12 Cl2 N2 ORN 443102-05-4 HCAPLUS  
CN 3-Pyridinecarboxamide, 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-, mixt.  
with (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 252955-12-7  
CMF C18 H19 Cl O5

CM 2

CRN 188425-85-6  
CMF C18 H12 Cl2 N2 O



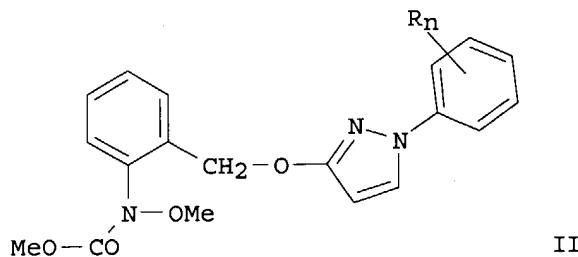
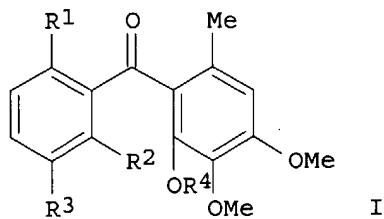
L31 ANSWER 13 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2002:555272 HCAPLUS  
 DN 137:105160  
 ED Entered STN: 26 Jul 2002  
 TI Synergistic fungicide mixtures  
 IN Mueller, Bernd; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz, Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus; Leyendecker, Joachim; Haden, Egon  
 PA Basf Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 28 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 IC ICM A01N035-04  
 ICS A01N047-24; A01N043-653  
 CC 5-2 (Agrochemical Bioregulators)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002056686	A1	20020725	WO 2002-EP411	20020117 <--
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1353554	A1	20031022	EP 2002-710012	20020117 <--
	EP 1353554	B1	20040630		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	EE 200300337	A	20031215	EE 2003-337	20020117 <--
	BR 2002006494	A	20040106	BR 2002-6494	20020117 <--
	AT 270041	E	20040715	AT 2002-710012	20020117 <--
	JP 2004521887	T2	20040722	JP 2002-557205	20020117 <--
	BG 107964	A	20040227	BG 2003-107964	20030702 <--
	US 2004077700	A1	20040422	US 2003-466168	20030714 <--
PRAI	DE 2001-10102279	A	20010118	<--	
	DE 2001-10123734	A	20010515	<--	
	WO 2002-EP411	W	20020117	<--	

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002056686	ICM	A01N035-04
	ICS	A01N047-24; A01N043-653

JP 2004521887 FTERM 4H011/AA01; 4H011/AA03; 4H011/BA06; 4H011/BB05;  
 4H011/BB09; 4H011/BB13  
 US 2004077700 ECLA A01N035/04; A01N047/24  
 OS MARPAT 137:105160  
 GI

<--  
<--

AB The title mixts. comprise a benzophenone I (R1 = Cl, Me, AcO, pivaloyloxy or OH; R2 = Cl or Ne; R3 = H, halo or Me; R4 = alkyl, benzyl, halobenzyl or methylbenzyl) a carbamate II (R = halo, alkyl or haloalkyl; n = 1 or 2) and an azole derivative, such as epoxyconazole, metconazole, propiconazole or tebuconazole.

ST synergism fungicide benzophenone carbamate azole derivs

IT Fungicides

(synergistic, agrochem.; mixts. of benzophenone carbamate and azole derivative,)

IT 60207-90-1D, Propiconazole, mixts. with benzophenone ans carbamate derivs. 107534-96-3D, Tebuconazole, mixts. with benzophenone ans carbamate derivs. 125116-23-6D, Metconazole, mixts. with benzophenone ans carbamate derivs. 133855-98-8D, mixts. with benzophenone ans carbamate derivs. 178928-70-6D, mixts. with benzophenone ans carbamate derivs.

**443102-41-8 443102-48-5 443102-54-3**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicide mixture)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
- (2) Leyendecker, J; WO 9740688 A 1997 HCAPLUS
- (3) Leyendecker, J; EP 0900021 A 1999 HCAPLUS
- (4) Novartis Erfind Verwalt GmbH; WO 0076317 A 2000 HCAPLUS

IT **443102-41-8 443102-48-5 443102-54-3**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicide mixture)

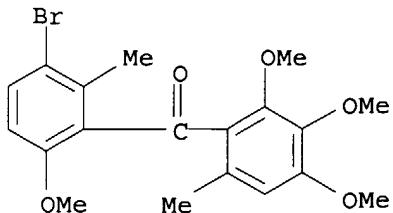
RN 443102-41-8 HCAPLUS

CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone and rel-1-[[[(2R,3S)-3-(2-chlorophenyl)-2-(4-

fluorophenyl)oxiranyl)methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

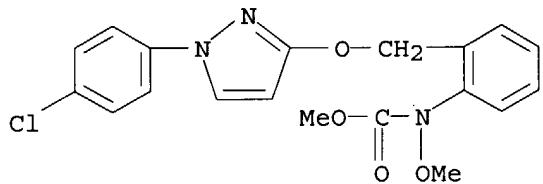
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CRN 220899-03-6  
CMF C19 H21 Br O5



CM 2

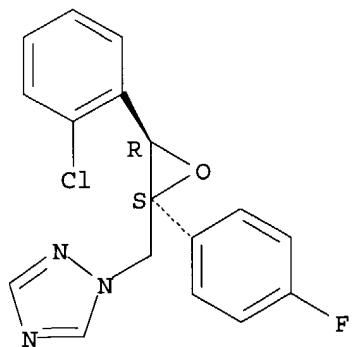
CRN 175013-18-0  
CMF C19 H18 Cl N3 O4



CM 3

CRN 133855-98-8  
CMF C17 H13 Cl F N3 O

Relative stereochemistry.



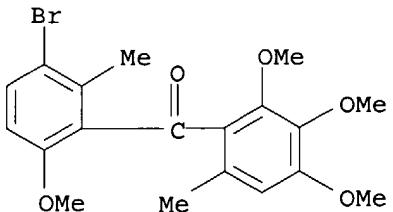
RN 443102-48-5 HCAPLUS

CN Carbamic acid, methoxy[2-[[[1-(4-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-, methyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone and

rel-1-[[*(2R,3S)*-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1*H*-1,2,4-triazole (9CI) (CA INDEX NAME)

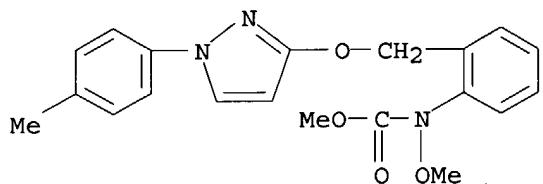
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CMF C19 H21 Br O5



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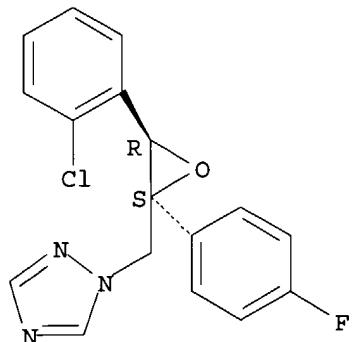
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CM 3

CRN 133855-98-8  
CMF C17 H13 Cl F N3 O

Relative stereochemistry.

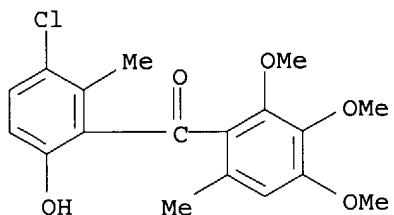


RN 443102-54-3 HCAPLUS  
CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1*H*-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with

(3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone and *rel*-1-[[*(2R,3S)*-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1*H*-1,2,4-triazole (9CI) (CA INDEX NAME)

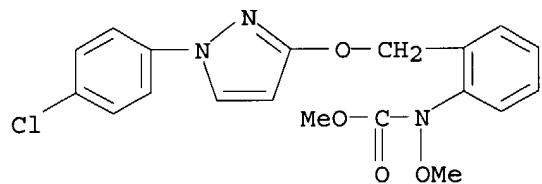
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CRN 252955-12-7  
CMF C18 H19 Cl O5



CM 2

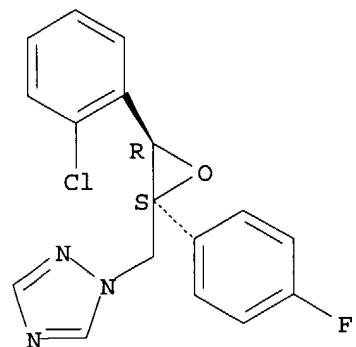
CRN 175013-18-0  
CMF C19 H18 Cl N3 O4



CM 3

CRN 133855-98-8  
CMF C17 H13 Cl F N3 O

Relative stereochemistry.



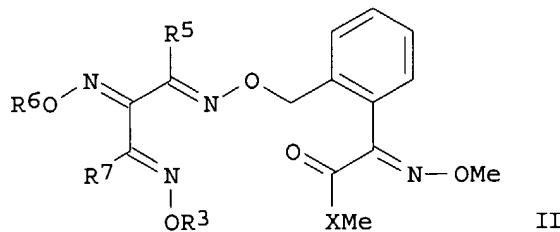
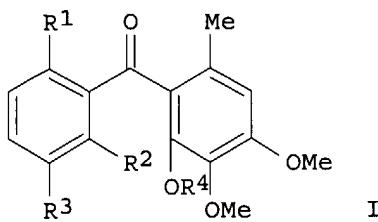
AN 2002:555271 HCAPLUS  
 DN 137:105159  
 ED Entered STN: 26 Jul 2002  
 TI Synergistic fungicidal mixtures  
 IN Grote, Thomas; Rose, Ingo; Ammermann, Eberhard; Stierl, Reinhard; Lorenz,  
     Gisela; Strathmann, Siegfried; Scherer, Maria; Schelberger, Klaus; Haden,  
     Egon  
 PA Basf Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 16 pp.  
     CODEN: PIXXD2  
 DT Patent  
 LA German  
 IC ICM A01N035-00  
 CC 5-2 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002056685	A2	20020725	WO 2002-EP412	20020117 <--
	WO 2002056685	A3	20020912		
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1353553	A2	20031022	EP 2002-703556	20020117 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004521886	T2	20040722	JP 2002-557204	20020117 <--
	US 2004054011	A1	20040318	US 2003-466167	20030714 <--
PRAI	DE 2001-10117260	A	20010118	<--	
	WO 2002-EP412	W	20020117	<--	

## CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
	WO 2002056685	ICM	A01N035-00	
	JP 2004521886	FTERM	4H011/AA01; 4H011/BA06; 4H011/BB04; 4H011/BB05; 4H011/BC03; 4H011/DA16; 4H011/DF04	<--
	US 2004054011	ECLA	A01N035/04; A01N037/50	<--
OS	MARPAT 137:105159			
GI				



AB The title mixts. contain (a) benzophenones I, where R1 = chloro, Me, methoxy, acetoxy, pivaloyloxy or hydroxy; R2 = chloro or methyl; R3 = H, halogen or Me and R4 = C1-C6 alkyl or benzyl, where the Ph moiety of the benzyl group may be halo- or methyl-substituted, and (b) oxime ethers II, where X = NH or O; R5, R7 = C1-C4 alkyl or cyclopropyl; R6, R8 = C1-C4 alkyl, C3-C4 alkenyl or cyclopropyl.

ST synergism fungicide benzophenones oxime ether

IT Fungicides

(synergistic, agrochem.; mixts. containing benzophenones and oxime ethers)

IT 443105-10-0 443105-16-6

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic fungicidal mixture)

IT 443105-10-0 443105-16-6

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic fungicidal mixture)

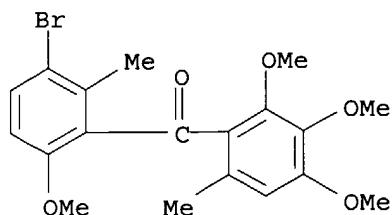
RN 443105-10-0 HCAPLUS

CN Benzeneacetamide, .alpha.-[methoxyimino]-2-[5-[methoxyimino]-4,6-dimethyl-2,8-dioxa-3,7-diazanona-3,6-dien-1-yl]-N-methyl-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

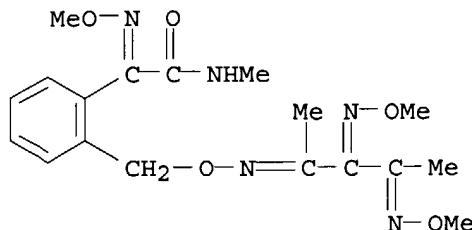
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CRN 220899-03-6

CMF C19 H21 Br O5



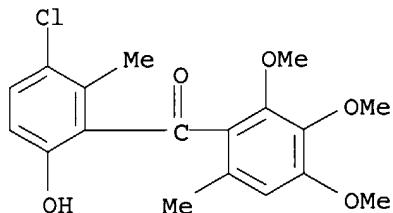
CM 2

CRN 189892-69-1  
CMF C18 H25 N5 O5

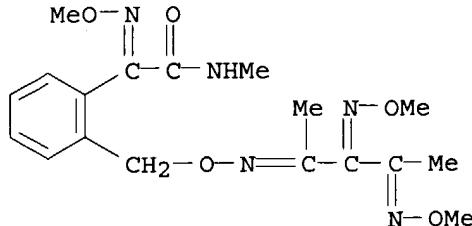
RN 443105-16-6 HCAPLUS

CN Benzeneacetamide, .alpha.- (methoxyimino)-2-[5-(methoxyimino)-4,6-dimethyl-2,8-dioxa-3,7-diazanona-3,6-dien-1-yl]-N-methyl-, mixt. with (3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) methanone (9CI) (CA INDEX NAME)

CM 1

CRN 252955-12-7  
CMF C18 H19 Cl O5

CM 2

CRN 189892-69-1  
CMF C18 H25 N5 O5

L31 ANSWER 15 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:797993 HCAPLUS

DN 135:314876

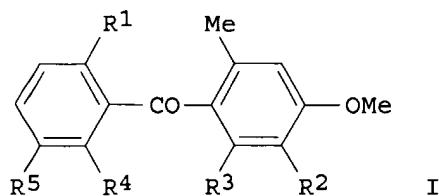
ED Entered STN: 02 Nov 2001  
 TI Synergistic fungicidal compositions containing benzophenone derivatives  
 and azoxystrobin  
 IN Leadbitter, Neil  
 PA Syngenta Participations A.-G., Switz.  
 SO PCT Int. Appl., 20 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A01N043-54  
 ICS A01N043-54; A01N037-02; A01N035-04  
 CC 5-2 (Agrochemical Bioregulators)

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001080643	A1	20011101	WO 2001-EP4624	20010424 <--
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1278414	A1	20030129	EP 2001-940360	20010424 <--
	EP 1278414	B1	20031217		
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	BR 2001010242	A	20030701	BR 2001-10242	20010424 <--
	JP 2003531155	T2	20031021	JP 2001-577752	20010424 <--
	AT 256393	E	20040115	AT 2001-940360	20010424 <--
	US 2003166669	A1	20030904	US 2003-258513	20030311 <--
PRAI	GB 2000-10198	A	20000426	<--	
	WO 2001-EP4624	W	20010424	<--	

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001080643	ICM	A01N043-54
	ICS	A01N043-54; A01N037-02; A01N035-04
US 2003166669	ECLA	A01N043/54
OS	MARPAT 135:314876	
GI		<--



AB Synergistic fungicidal compns. for combating phytopathogenic diseases on crop plants comprise (a) a benzophenone of I (R1 = methoxy, Me, hydroxy, acetoxy, or pivaloyloxy; R2 = C1-C4 alkoxy or 2-halogenbenzyl; R3 = C1-C4 alkoxy; R4 = C1-C4 alkyl, halo, or trifluoromethyl; R5 = H, halo, C1-C4 alkoxy, trifluoromethyl, or nitro) in association with (b) azoxystrobin.

ST benzophenone deriv azoxystrobin mixt synergistic fungicide  
 IT Fungicides  
     (synergistic; synergistic fungicidal compns. containing benzophenone  
     derivs. and azoxystrobin)  
 IT 131860-33-8D, Azoxytrobin, mixts. with benzophenone derivs.  
**368872-60-0** 368872-61-1 368872-62-2 368872-63-3  
 368872-64-4 368872-65-5 368872-66-6 368872-67-7 368872-68-8  
 368872-69-9 **368872-70-2** 368872-71-3 **368872-72-4**  
     RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
     (synergistic fungicidal compns. containing)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) American Cyanamid Co; EP 0897904 A 1999 HCPLUS
- (2) American Cyanamid Co; EP 0899255 A 1999 HCPLUS
- (3) American Cyanamid Co; EP 0933025 A 1999 HCPLUS
- (4) American Cyanamid Co; EP 1023834 A 2000 HCPLUS
- (5) Novartis Erfind Verwalt GmbH; WO 0076317 A 2000 HCPLUS

IT **368872-60-0** **368872-70-2** **368872-72-4**  
     RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
     (synergistic fungicidal compns. containing)

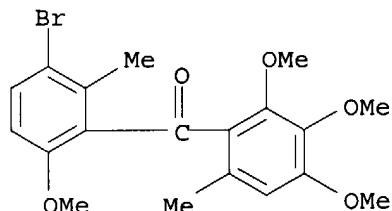
RN 368872-60-0 HCPLUS

CN Benzeneacetic acid, 2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]-.alpha.-  
     (methoxymethylene)-, methyl ester, (.alpha.E)-, mixt. with  
     (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-  
     methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br O5

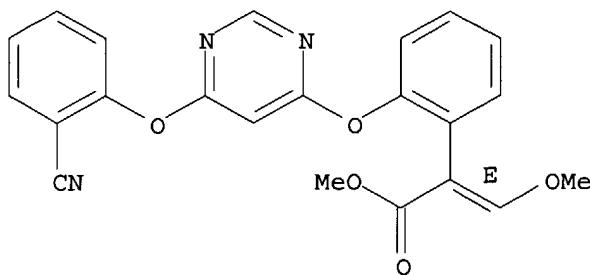


CM 2

CRN 131860-33-8

CMF C22 H17 N3 O5

Double bond geometry as shown.



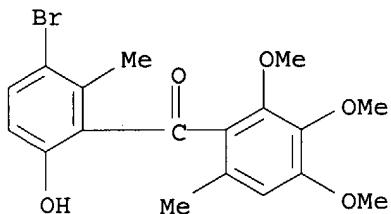
RN 368872-70-2 HCPLUS

CN Benzeneacetic acid, 2-[(6-(2-cyanophenoxy)-4-pyrimidinyl)oxy]-.alpha.-(methoxymethylene)-, methyl ester, (.alpha.E)-, mixt. with (3-bromo-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 252955-10-5

CMF C18 H19 Br O5

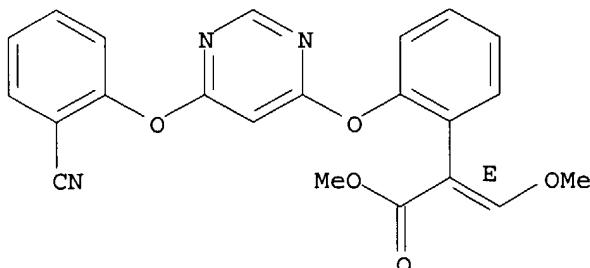


CM 2

CRN 131860-33-8

CMF C22 H17 N3 O5

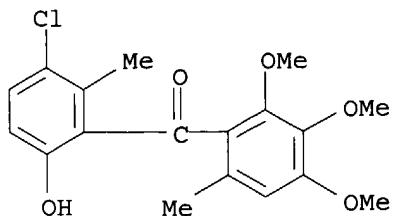
Double bond geometry as shown.



RN 368872-72-4 HCPLUS

CN Benzeneacetic acid, 2-[(6-(2-cyanophenoxy)-4-pyrimidinyl)oxy]-.alpha.-(methoxymethylene)-, methyl ester, (.alpha.E)-, mixt. with (3-chloro-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

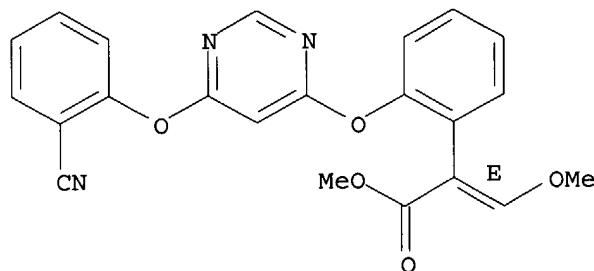
CM 1

CRN 252955-12-7  
CMF C18 H19 Cl O5

CM 2

CRN 131860-33-8  
CMF C22 H17 N3 O5

Double bond geometry as shown.



L31 ANSWER 16 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:797992 HCAPLUS  
 DN 135:328375  
 ED Entered STN: 02 Nov 2001  
 TI Synergistic fungicidal mixtures of (E,E)-.alpha.- (Methoxyimino)-2-[[[[1-(3-trifluoromethylphenyl)ethylidene]amino]oxy]methyl]benzenacetic acid Me ester with benzophenones  
 IN Leadbitter, Neil  
 PA Bayer Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 18 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A01N037-50  
 ICS A01N037-50; A01N037-02; A01N035-04  
 CC 5-2 (Agrochemical Bioregulators)  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI WO 2001080640	A1	20011101	WO 2001-EP4228	20010412 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,				

HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,  
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,  
 RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,  
 VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI GB 2000-10200 A 20000426 <--

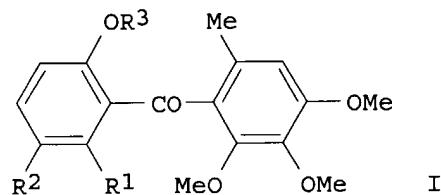
CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

-----  
 WO 2001080640 ICM A01N037-50  
 ICS A01N037-50; A01N037-02; A01N035-04

OS MARPAT 135:328375

GI



AB Mixts. of (E,E)-.alpha.-(Methoxyimino)-2-[[[1-(3-trifluoromethylphenyl)ethylidene]amino]oxy]methyl]benzenacetic acid Me ester with benzophenones I (R1 = Cl, Me; R2 = H, Br, Cl, CF3; R3 = H, acetyl, pivaloyl) are used as synergistic fungicides for treatment of phytopathogenic diseases of crop plants.

ST benzenacetate deriv benzophenone mixt synergistic fungicide

IT Fungicides

(synergistic; synergistic fungicidal mixts. of {(E,E)-.alpha.-(Methoxyimino)-2-[[[1-(phenyl)ethylidene]amino]oxy]methyl]benzenacetic } acid Me ester with benzophenones)

IT 141517-21-7D, mixts. with benzophenones 369374-47-0

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal composition containing)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) American Cyanamid Co; EP 0967196 A 1999 HCAPLUS
- (2) American Cyanamid Co; EP 1023834 A 2000 HCAPLUS
- (3) Ciba Geigy Ag; EP 0460575 A 1991 HCAPLUS
- (4) Novartis Erfind Verwalt GmbH; WO 0072677 A 2000 HCAPLUS
- (5) Novartis Erfind Verwalt GmbH; WO 0072678 A 2000 HCAPLUS

IT 369374-47-0

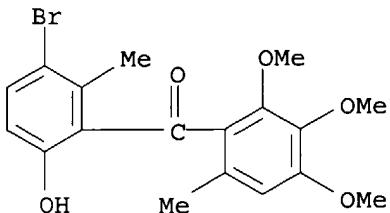
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal composition containing)

RN 369374-47-0 HCAPLUS

CN Benzeneacetic acid, .alpha.-(methoxyimino)-2-[[[(E)-[1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-bromo-6-hydroxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

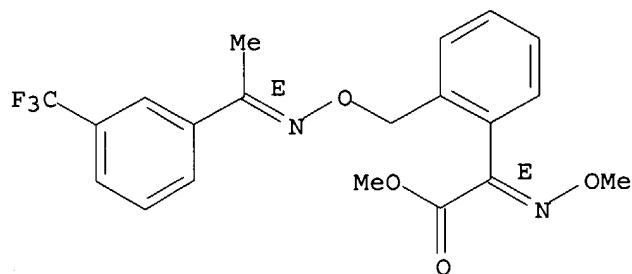
CRN 252955-10-5  
CMF C18 H19 Br O5



CM 2

CRN 141517-21-7  
CMF C20 H19 F3 N2 O4

Double bond geometry as shown.



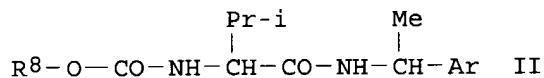
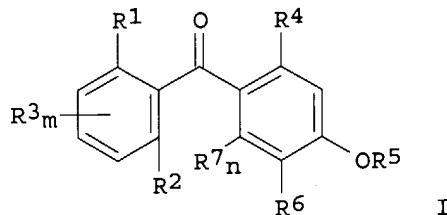
L31 ANSWER 17 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 2001:635833 HCAPLUS  
DN 135:191652  
ED Entered STN: 31 Aug 2001  
TI Synergistic fungicidal mixtures against downy mildew containing benzophenone and valinamide derivatives  
IN Sieverding, Ewald; Reichert, Gunter  
PA Basf Aktiengesellschaft, Germany  
SO PCT Int. Appl., 26 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
IC ICM A01N035-04  
ICS A01N035-04; A01N047-12  
CC 5-2 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001062083	A2	20010830	WO 2001-EP1719	20010216 <--
	WO 2001062083	A3	20020627		
				W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,	

ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 US 2002065313 A1 20020530 US 2001-782095 20010213 <--  
 US 6696497 B2 20040224  
 NZ 520607 A 20040625 NZ 2001-520607 20010216 <--  
 PRAI US 2000-184277P P 20000223 <--  
 WO 2001-EP1719 W 20010216 <--  
 CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
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WO 2001062083	ICM	A01N035-04	
	ICS	A01N035-04; A01N047-12	
US 2002065313	ECLA	A01N047/12	<--
OS MARPAT 135:191652			
GI			



AB Synergistic fungicidal compns. comprising (a) at least one benzophenone of I (R1 = halo, (un)substituted alkyl, alkanoyloxy, alkoxy, hydroxy; R2 = halo, (un)substituted alkyl; R3 = halo, (un)substituted alkyl, alkoxy, nitro; R4 = halo, cyano, carboxy, hydroxy, nitro, (un)substituted alkyl, alkoxy, alkenyl, alkylthio, alkylsulphinyl, alkylsulfonyl, amino; R5 = (un)substituted alkyl; R6 = halo, nitro, (un)substituted alkyl, alkoxy, alkenyloxy, alkynyloxy, alkylthio, cycloalkyl, cycloalkyloxy, aryloxy; R7 = halo, (un)substituted alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkynyloxy, cycloalkyl, cycloalkoxy; m = 0, 1-3; n = 0, 1), and (b) at least one valinamide II (Ar = Ph, naphthyl, benzthiazolyl, benzimidazolyl, benzoxazoyland; R8 = C1-C6alkyl) are effective for controlling phytopathogenic fungi, such as downy mildew, at a locus.

ST fungicide synergistic benzophenone valinamide deriv downy mildew

IT Peronosporaceae  
(synergistic fungicidal mixts. against downy mildew containing benzophenone and valinamide derivs.)

IT Fungicides  
(synergistic; synergistic fungicidal mixts. against downy mildew containing benzophenone and valinamide derivs.)

IT 119-61-9D, benzophenone, derivs., mixts. with valinamide derivs.  
13474-14-1D, Valinamide, derivs., mixts. with benzophenone derivs.  
140923-17-7D, Iprovalicarb, mixts. with benzophenone derivs.  
161011-89-8D, mixts. with benzophenone derivs. 183725-88-4D, mixts. with

valinamide derivs. 183726-56-9D, mixts. with valinamide derivs. 183726-77-4D, mixts. with valinamide derivs. 220899-03-6D, mixts. with valinamide derivs. 221051-20-3D, mixts. with valinamide derivs. 345205-72-3D, mixts. with benzophenone derivs.

357278-34-3 357278-36-5 357278-38-7

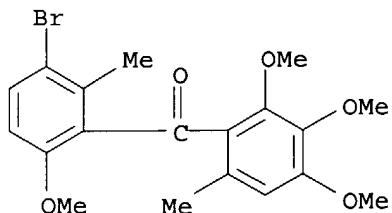
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal compns. against downy mildew containing)

IT 220899-03-6D, mixts. with valinamide derivs. 357278-34-3  
357278-36-5 357278-38-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal compns. against downy mildew containing)

RN 220899-03-6 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



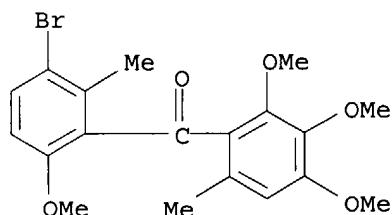
RN 357278-34-3 HCPLUS

CN Carbamic acid, [(1S)-2-methyl-1-[[[1-(4-methylphenyl)ethyl]amino]carbonyl]propyl]-, 1-methylethyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br 05

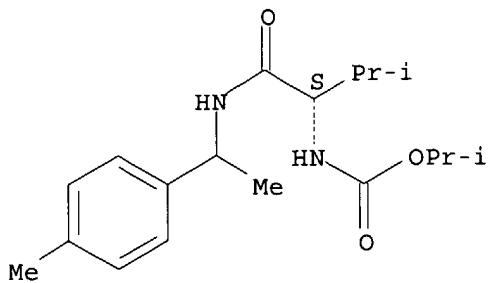


CM 2

CRN 140923-17-7

CMF C18 H28 N2 O3

Absolute stereochemistry.



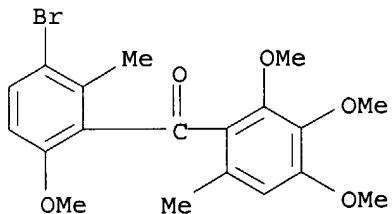
RN 357278-36-5 HCAPLUS

CN Carbamic acid, [2-methyl-1-[[[1-(2-naphthalenyl)ethyl]amino]carbonyl]propyl 1-, 1-methylethyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

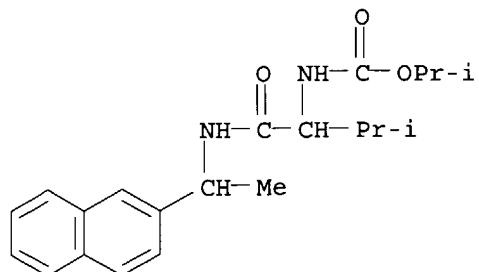
CMF C19 H21 Br O5



CM 2

CRN 161011-89-8

CMF C21 H28 N2 O3

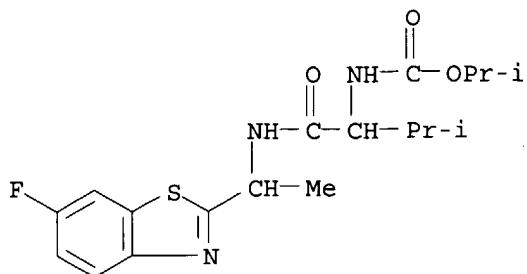


RN 357278-38-7 HCAPLUS

CN Carbamic acid, [1-[[[1-(6-fluoro-2-benzothiazolyl)ethyl]amino]carbonyl]-2-methylpropyl 1-, 1-methylethyl ester, mixt. with (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) methanone (9CI) (CA INDEX NAME)

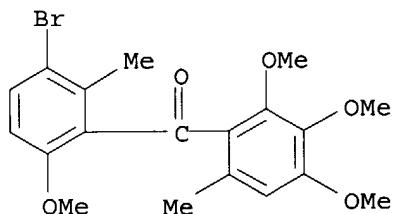
CM 1

CRN 345205-72-3  
CMF C18 H24 F N3 O3 S



CM 2

CRN 220899-03-6  
CMF C19 H21 Br 05



L31 ANSWER 18 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:526037 HCAPLUS

DN 135:107143

ED      Entered STN: 20 Jul 2001

TI A process for the preparation of substituted benzophenones

IN Kameswaran, Venkataraman

PA Basf Aktiengesellschaft, Germany

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DT Patent

## LA English

IC ICM C07C045-46

ICS C07C045-00; C07C205-45; C07C049-84; C07B041-06; C07D295-18  
II-16 (P) The Derivatives and Condensed Benzoid Compounds

CC 25-16 (Benzene, its Derivatives, and Condensed Benzenoid Compounds)

FAN.CNT 1

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001051440	A1	20010719	WO 2001-EP47	20010104 <-
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2001031753 A1 20011018 US 2001-758809 20010111 <--  
PRAI US 2000-175979P P 20000113 <--

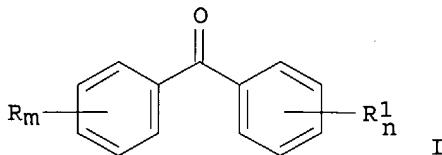
## CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

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WO 2001051440 ICM C07C045-46  
ICS C07C045-00; C07C205-45; C07C049-84; C07B041-06;  
C07D295-18

OS CASREACT 135:107143; MARPAT 135:107143

GI



AB Preparation of the title compds. I [m, n = 0-5; R = halo, alkyl, haloalkyl, etc.; R1 = alkyl, alkoxy, alkoxyalkyl, NR5R6] involved acylation of substituted benzenes in the presence of graphite and FeCl3. E.g., a slurry of 3-bromo-6-methoxy-2-methylbenzoic acid in 1,2-dichloroethane is treated with oxalyl chloride at room temperature over a 15 min period, heated to 700.degree. C for 2 h, cooled to room temperature, treated with 3,4,5-trimethoxytoluene, anhydrous FeCl3, and graphite to give 3'-bromo-2,3,4,6'-tetramethoxy-2',6-dimethylbenzophenone (71.7% yield).

ST benzophenone prepn

IT 7705-08-0, Iron trichloride, uses 7782-42-5, Graphite, uses  
RL: CAT (Catalyst use); USES (Uses)

(preparation of substituted benzophenones)

IT 97726-03-9P 116412-83-0P 128566-22-3P 162052-60-0P  
220899-03-6P 349559-65-5P 349559-66-6P 349559-67-7P  
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP  
(Preparation)

(preparation of substituted benzophenones)

IT 91-16-7, Veratrole 122-01-0, 4-Chlorobenzoyl chloride 122-04-3,  
4-Nitrobenzoyl chloride 618-32-6, Benzoyl bromide 831-50-5 5216-25-1  
5396-38-3, 4-tert-Butylanisole 6443-69-2 7073-36-1 18063-02-0  
220901-25-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of substituted benzophenones)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) American Cyanamid Co; EP 0854128 A 1998 HCPLUS

(2) Goendoes, G; 1996 HCPLUS

(3) Goendoes, G; J PHYS CHEM SOLIDS, PROCEEDINGS OF THE 8TH INTERNATIONAL SYMPOSIUM ON INTERCALATION COMPOUNDS 1996, V57, P855 HCPLUS

(4) Khadilkar; TETRAHEDRON LETT 1997, V38(9), P1641 HCPLUS

(5) Kodomari; CHEM COMMUN (CAMBRIDGE) 1997, 16, P1567 HCPLUS

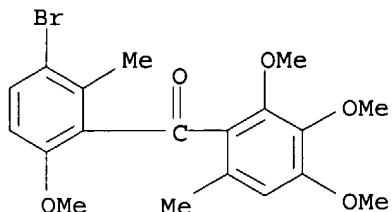
IT 220899-03-6P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP

(Preparation)

(preparation of substituted benzophenones)

RN 220899-03-6 HCAPLUS  
 CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 19 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:900389 HCAPLUS  
 DN 134:38252  
 ED Entered STN: 22 Dec 2000  
 TI Synergistic fungicidal combinations of benzophenones with strobilurins, cyanoimidazoles, and carbonic acid amides  
 IN Dalton, Ian Paul  
 PA Novartis Ag, Switz.; Novartis-Erfindungen Verwaltungsgesellschaft M.B.H.  
 SO PCT Int. Appl., 25 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A01N035-04  
 ICS A01N035-04; A01N047-24; A01N047-12; A01N043-88; A01N043-653; A01N043-50; A01N043-40; A01N037-24; A01N037-20  
 CC 5-2 (Agrochemical Bioregulators)

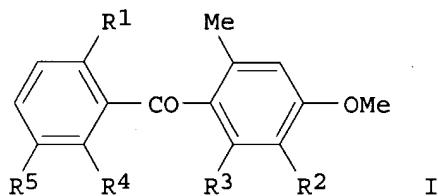
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000076317	A1	20001221	WO 2000-EP5433	20000613 <--
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1185173	A1	20020313	EP 2000-951283	20000613 <--
	EP 1185173	B1	20030528		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	BR 2000011615	A	20020423	BR 2000-11615	20000613 <--
	JP 2003501448	T2	20030114	JP 2001-502673	20000613 <--
	AT 241268	E	20030615	AT 2000-951283	20000613 <--
	PT 1185173	T	20031031	PT 2000-951283	20000613 <--
	ES 2200905	T3	20040316	ES 2000-951283	20000613 <--
	US 2002107246	A1	20020808	US 2001-997607	20011129 <--
	US 6689776	B2	20040210		
PRAI	GB 1999-13787	A	19990614	<--	
	GB 1999-13789	A	19990614	<--	
	GB 1999-13792	A	19990614	<--	
	GB 1999-13794	A	19990614	<--	

GB 1999-13796	A	19990614	<--
GB 1999-13798	A	19990614	<--
GB 1999-13803	A	19990614	<--
GB 1999-13805	A	19990614	<--
GB 1999-13807	A	19990614	<--
GB 1999-13808	A	19990614	<--
GB 1999-13810	A	19990614	<--
GB 1999-13812	A	19990614	<--
GB 1999-13813	A	19990614	<--
GB 1999-13814	A	19990614	<--
GB 1999-13816	A	19990614	<--
GB 1999-13817	A	19990614	<--
GB 1999-13818	A	19990614	<--
GB 1999-13820	A	19990614	<--
GB 1999-13822	A	19990614	<--
GB 1999-13824	A	19990614	<--
GB 1999-13826	A	19990614	<--
GB 1999-13827	A	19990614	<--
WO 2000-EP5433	W	20000613	<--

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
WO 2000076317	ICM	A01N035-04	
	ICS	A01N035-04; A01N047-24; A01N047-12; A01N043-88; A01N043-653; A01N043-50; A01N043-40; A01N037-24; A01N037-20	
US 2002107246	ECLA	A01N035/04	<--
GI			



AB The invention relates to a method of combating phytopathogenic diseases on crop plants which comprises applying to the crop plants or the locus thereof being infested with said phytopathogenic disease an effective amount of a combination of a benzophenone I (R1 = methoxy, Me; R2 = C1-C4alkoxy, 2-halogenbenzyloxy; R3 = C1-C4alkoxy; R4 = C1-C4alkyl, halo, or trifluoromethyl; R5 = H, halo, C1-C4alkoxy, trifluoromethyl, or nitro) in association with a compound selected from strobilurins, cyanoimidazoles, and carbonic acid amides.

ST fungicide synergistic benzophenone strobilurin cyanoimidazole carbonic acid amide

IT Fungicides

(synergistic; combinations of benzophenones with strobilurins, cyanoimidazoles, and carbonic acid amides)

IT 117428-22-5D, Picoxystrobin, mixts. with benzophenones 120116-88-3D, IKF 916, mixts. with benzophenones 126833-17-8D, Fenhexamid, mixts. with benzophenones 140923-17-7D, Iprovalicarb, mixts. with benzophenones 156052-68-5D, RH 7281, mixts. with benzophenones 161326-34-7D, Fenamidone, mixts. with benzophenones 175013-18-0D, mixts. with

benzophenones 185336-79-2D, mixts. with benzophenones 185949-88-6D, mixts. with benzophenones 193740-76-0D, mixts. with benzophenones 220898-62-4D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220898-85-1D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220899-03-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220899-11-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220899-25-2D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-12-9D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-62-9D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-68-5D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-85-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-88-9D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-13-4D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-14-5D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-15-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-16-7D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-17-8D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-55-4D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-56-5D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-57-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-58-7D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-59-8D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-60-1D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 221051-61-2D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 313053-52-0D, mixts. with benzophenones

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(in synergistic fungicidal combinations)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

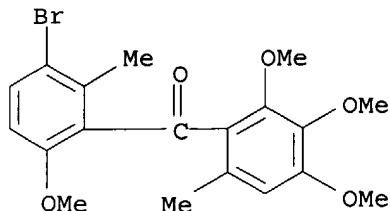
(1) American Cyanamid Co; EP 0897904 A 1999 HCPLUS  
(2) American Cyanamid Co; EP 0899255 A 1999 HCPLUS

IT 220899-03-6D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-12-9D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-62-9D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides 220900-68-5D, mixts. with strobilurins, cyanoimidazoles, and carbonic acid amides

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(in synergistic fungicidal combinations)

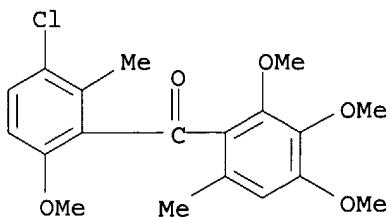
RN 220899-03-6 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



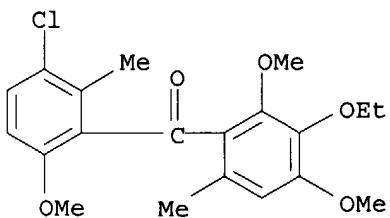
RN 220900-12-9 HCPLUS

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



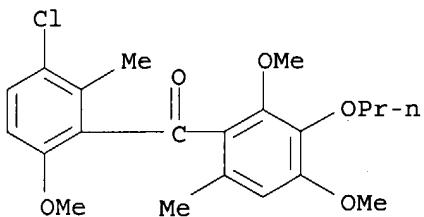
RN 220900-62-9 HCPLUS

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (3-ethoxy-2,4-dimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



RN 220900-68-5 HCPLUS

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (2,4-dimethoxy-6-methyl-3-propoxyphenyl) - (9CI) (CA INDEX NAME)



L31 ANSWER 20 OF 27 HCPLUS COPYRIGHT 2004 ACS on STN

AN 2000:861422 HCPLUS

DN 134:14301

ED Entered STN: 08 Dec 2000

TI Synergistic fungicidal compositions

IN Leadbitter, Neil

PA Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.

SO PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A01N037-50

ICS A01N037-50; A01N035-04

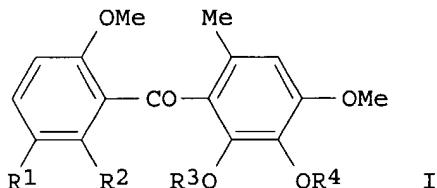
CC 5-2 (Agrochemical Bioregulators)

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000072677	A1	20001207	WO 2000-EP4741	20000524 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1189508	A1	20020327	EP 2000-943734	20000524 <--
	EP 1189508	B1	20031008		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	ZA 2001008893	A	20020823	ZA 2001-8893	20011029 <--
	US 6472428	B1	20021029	US 2002-979330	20020212 <--
PRAI	GB 1999-12219	A	19990526	<--	
	WO 2000-EP4741	W	20000524	<--	

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2000072677	ICM	A01N037-50
	ICS	A01N037-50; A01N035-04
US 6472428	ECLA	A01N037/50
OS MARPAT 134:14301		
GI		<--



AB The invention relates to synergistic fungicidal combinations comprising (E,E)-alpha-(methoxyimino)-2-[[[[1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]benzeneacetic acid Me ester in association with a benzophenone I (R1 = H, halo, C1-5 alkyl or CF3; R2 = halo, C1-5 alkyl or CF3; R3 = C1-5 alkyl or optionally substituted benzyl; R4 = C1-5 alkyl) which are particularly effective in combating or preventing fungal diseases of crop plants.

ST synergism fungicide compn benzophenone deriv

IT Fungicides  
(synergistic; compns. containing benzophenone derivative)

IT 309752-56-5 309752-57-6 309752-58-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic fungicidal composition)

IT 141517-21-7D, mixts. with benzophenone derivs.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic fungicidal compns.)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) American Cyanamid Company; EP 0897904 A 1999 HCPLUS  
 (2) Ciba-Geigy A-G Switz; EP 0460575 A 1991 HCPLUS

IT 309752-56-5 309752-57-6 309752-58-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal composition)

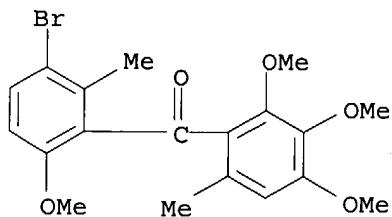
RN 309752-56-5 HCPLUS

CN Benzeneacetic acid, .alpha.- (methoxyimino)-2-[[[(E)-[1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220899-03-6

CMF C19 H21 Br 05

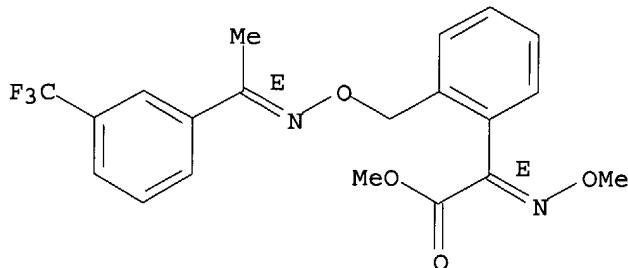


CM 2

CRN 141517-21-7

CMF C20 H19 F3 N2 O4

Double bond geometry as shown.



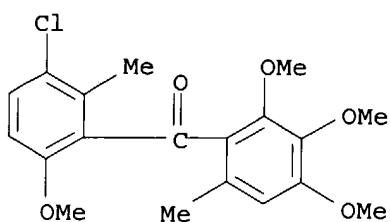
RN 309752-57-6 HCPLUS

CN Benzeneacetic acid, .alpha.- (methoxyimino)-2-[[[(E)-[1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]-, methyl ester, (.alpha.E)-, mixt. with (3-chloro-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 220900-12-9

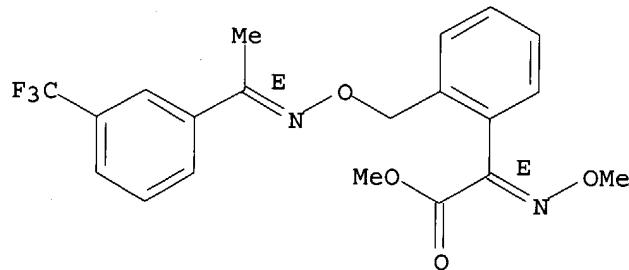
CMF C19 H21 Cl 05



CM 2

CRN 141517-21-7  
CMF C20 H19 F3 N2 O4

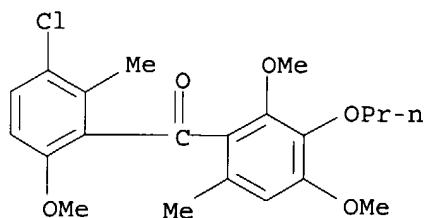
Double bond geometry as shown.



RN 309752-58-7 HCPLUS

CN Benzeneacetic acid, .alpha.- (methoxyimino)-2- [[[ (E)-[1- [3- (trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl] -, methyl ester, (.alpha.E)-, mixt. with (3-chloro-6-methoxy-2-methylphenyl) (2,4-dimethoxy-6-methyl-3-propoxyphenyl)methanone (9CI) (CA INDEX NAME)

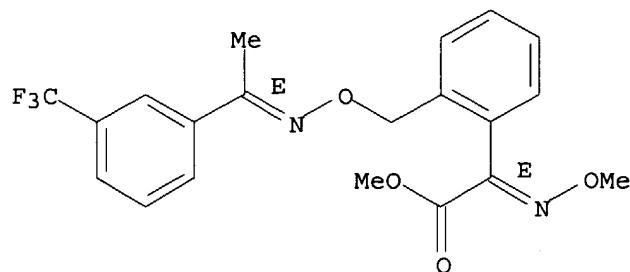
CM 1

CRN 220900-68-5  
CMF C21 H25 Cl O5

CM 2

CRN 141517-21-7  
CMF C20 H19 F3 N2 O4

Double bond geometry as shown.



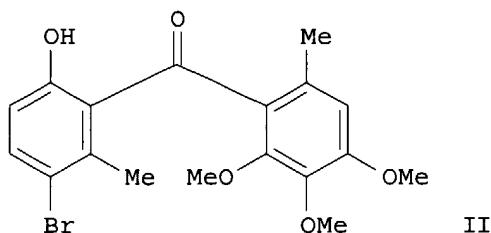
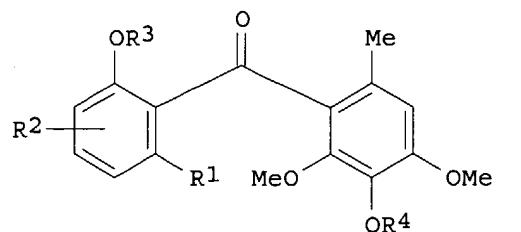
L31 ANSWER 21 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:699226 HCAPLUS  
 DN 133:266598  
 ED Entered STN: 04 Oct 2000  
 TI Fungicidal substituted 2-hydroxybenzophenones  
 IN Curtze, Juergen; Morschhaeuser, Gerd; Van Tuyl Cotter, Henry  
 PA American Cyanamid Company, USA  
 SO U.S., 11 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 IC ICM C07L069-00  
 NCL 560140000  
 CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6127570	A	20001003	US 1999-329712	19990610 <--
PRAI US 1999-329712		19990610	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 6127570	ICM	C07L069-00
	NCL	560140000

OS MARPAT 133:266598  
 GI



AB 2-Hydroxybenzophenones [I; R1 = halo, alkyl, fluoroalkyl; R2 = H, halo, alkyl, alkoxy, etc.; R3 = H, protecting group; R4 = (un)substituted alkyl] were prepared as agricultural fungicides. Thus, 0.7 g 2-acetoxy-5-bromo-6,6'-dimethyl-2',3',4'-trimethoxybenzophenone (prepared in 4 steps from Et 2-hydroxy-6-methylbenzoate) and 0.7 g potassium carbonate were stirred in MeOH (10 mL) and water (5 mL) at room temperature for 20 h to give II in 75.9% yield. At 125 ppm, II controlled wheat powdery mildew on wheat with 59% efficacy.

ST hydroxybenzophenone deriv prepn fungicidal activity

IT Fungicides

(2-hydroxybenzophenones)

IT 252955-09-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)  
(fungicidal substituted 2-hydroxybenzophenones)

IT 252955-10-5P 252955-11-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(fungicidal substituted 2-hydroxybenzophenones)

IT 567-61-3 1538-75-6, Pivaloyl anhydride 3282-30-2, Pivaloyl chloride

6443-69-2, 3,4,5-Trimethoxytoluene 6555-40-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(fungicidal substituted 2-hydroxybenzophenones)

IT 252955-14-9P 252955-18-3P 252955-19-4P 252955-20-7P 252955-21-8P

252955-22-9P 296236-21-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(fungicidal substituted 2-hydroxybenzophenones)

IT 252955-12-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(fungicidal substituted 2-hydroxybenzophenones)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

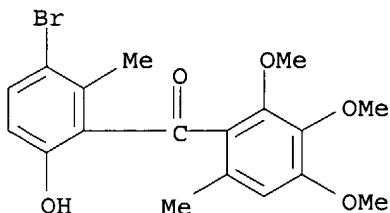
RE

(1) Anon; WO 9302036 1993 HCPLUS

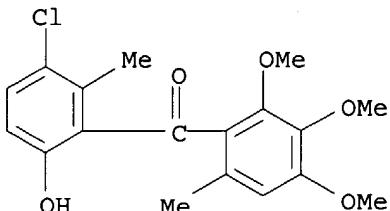
(2) Curtze; US 5679866 1997 HCPLUS

(3) Duennenberger; US 3924002 1975 HCPLUS

(4) Islam; J Chem Res Miniprint 1991, V2, P367  
 IT 252955-10-5P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (fungicidal substituted 2-hydroxybenzophenones)  
 RN 252955-10-5 HCAPLUS  
 CN Methanone, (3-bromo-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



IT 252955-12-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (fungicidal substituted 2-hydroxybenzophenones)  
 RN 252955-12-7 HCAPLUS  
 CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 22 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:553194 HCAPLUS  
 DN 133:146282  
 ED Entered STN: 11 Aug 2000  
 TI Stable non-aqueous fungicidal or herbicidal emulsifiable concentrate for crop protection containing defoaming agents  
 IN Aven, Michael; Schmidt, Friedrich  
 PA American Cyanamid Co., USA  
 SO Eur. Pat. Appl., 22 pp.  
 CODEN: EPXXDW

DT Patent  
 LA English  
 IC ICM A01N025-02  
 CC 5-3 (Agrochemical Bioregulators)  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1025757	A1	20000809	EP 2000-300673	20000128 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRAI US 1999-240418 A 19990129 <--  
 CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1025757	ICM	A01N025-02
AB	Stable non-aqueous emulsifiable concentrate formulation for crop protection comprises at least one fungicide or herbicide, at least one non-polar organic solvent, optionally, at least one polar aprotic cosolvent, an emulsifying surfactant system enabling an oil-in-water emulsion to be formed when the formulation is added to water, and at least one defoaming or foam breaking agent selected from the group consisting of perfluoroalkylphosphonic acids, perfluoroalkylphosphinic acids and perfluoroaliph. polymeric esters.	
ST	fungicide herbicide emulsion conc defoaming	
IT	Alcohols, uses RL: MOA (Modifier or additive use); USES (Uses) (C9-11, ethoxylated; non-ionic surfactant in stable fungicidal or herbicidal emulsifiable concentrate)	
IT	Emulsions Emulsions (agrochem.; stable fungicidal or herbicidal emulsifiable concentrate containing defoaming agents)	
IT	Carboxylic acids, uses RL: MOA (Modifier or additive use); USES (Uses) (dicarboxylic, C4-6, di-Me esters; co-solvent in stable fungicidal or herbicidal emulsifiable concentrate)	
IT	Agrochemical formulations Agrochemical formulations (emulsions; stable fungicidal or herbicidal emulsifiable concentrate containing defoaming agents)	
IT	Canola oil RL: MOA (Modifier or additive use); USES (Uses) (ethoxylated, Eumulgin CO 3373; non-ionic surfactant in stable fungicidal or herbicidal emulsifiable concentrate)	
IT	Castor oil RL: MOA (Modifier or additive use); USES (Uses) (ethoxylated, Mergital EL 33, Ukanil 2507; co-solvent in stable fungicidal or herbicidal emulsifiable concentrate)	
IT	Solvent naphtha (solvent in stable fungicidal or herbicidal emulsifiable concentrate)	
IT	Aromatic hydrocarbons, uses Paraffin oils RL: MOA (Modifier or additive use); USES (Uses) (solvent in stable fungicidal or herbicidal emulsifiable concentrate)	
IT	Fungicides (stable fungicidal emulsifiable concentrate containing defoaming agents)	
IT	Pesticide formulations (stable fungicidal or herbicidal emulsifiable concentrate containing defoaming agents)	
IT	Antifoaming agents Herbicides (stable herbicidal emulsifiable concentrate containing defoaming agents)	
IT	617-51-6, Lactic acid isopropyl ester RL: MOA (Modifier or additive use); USES (Uses) (Purasolv IPL; solvent in stable fungicidal or herbicidal emulsifiable concentrate)	
IT	9016-00-6, Rhodorsil 454	

RL: MOA (Modifier or additive use); USES (Uses)  
 (Rhodorsil 454; antifoaming agent in stable fungicidal or herbicidal emulsifiable concentrate)

IT 1331-61-9, Rhodacal 2283 26264-06-2, Rhodacal 70b  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (anionic surfactant in stable fungicidal or herbicidal emulsifiable concentrate)

IT 2991-51-7, Fluorad FC-129 11114-17-3, Fluorad FC-430 67906-42-7,  
 Fluorad FC-120 68958-61-2, Fluorad FC-171 135506-92-2, Fluowet pp  
 141615-38-5, Fluowet p180 287716-37-4, Rhodorsil 467  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (antifoaming agent in stable fungicidal or herbicidal emulsifiable concentrate)

IT 96-48-0, .gamma.-Butyrolactone 110-71-4, Ethylene glycol, dimethyl ether  
 6837-24-7, N-Cyclohexylpyrrolidone  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (co-solvent in stable fungicidal or herbicidal emulsifiable concentrate)

IT 110488-70-5, Dimethomorph 125116-23-6, Metconazole 220899-03-6  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (fungicide in stable emulsifiable concentrate)

IT 29450-45-1 40487-42-1, Pendimethalin 137641-05-5, Picolinafen  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (herbicide in stable emulsifiable concentrate)

IT 2687-94-7 2687-96-9, Agsol Ex12 32440-50-9, Agrimer al25  
 140175-09-3, Atplus mba 11-7 286940-99-6  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (non-ionic surfactant in stable fungicidal or herbicidal emulsifiable concentrate)

IT 26264-05-1, Atlox 3300b 128002-46-0, Atlox 4855b  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (surfactant in stable fungicidal or herbicidal emulsifiable concentrate)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

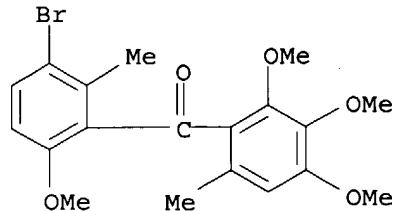
- (1) American Cyanamid Co; EP 0727141 A 1996 HCPLUS
- (2) American Cyanamid Co; EP 0878128 A 1998 HCPLUS
- (3) Ciba Geigy Ag; WO 9800008 A 1998 HCPLUS
- (4) Hoechst Ag; EP 0407874 A 1991 HCPLUS
- (5) Shell Int Research; EP 0447004 A 1991 HCPLUS

IT 220899-03-6

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (fungicide in stable emulsifiable concentrate)

RN 220899-03-6 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 23 OF 27 HCPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:534806 HCPLUS  
 DN 133:131170

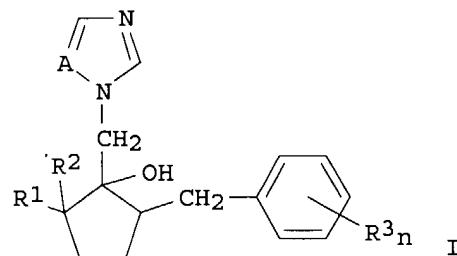
ED Entered STN: 04 Aug 2000  
 TI Nonaqueous emulsifiable concentrate fungicide formulation  
 IN Aven, Michael  
 PA American Cyanamid Co., USA  
 SO Eur. Pat. Appl., 15 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 IC ICM A01N043-50  
 ICS A01N043-653  
 ICI A01N043-50, A01N043-90, A01N035-04, A01N025-30, A01N025-02; A01N043-653,  
 A01N043-90, A01N035-04, A01N025-30, A01N025-02  
 CC 5-2 (Agrochemical Bioregulators)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1023837	A2	20000802	EP 2000-300666	20000128 <--
	EP 1023837	A3	20010530		
		R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO		
PRAI	US 1999-240634	A	19990129	<--	

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1023837	ICM	A01N043-50
	ICS	A01N043-653
	ICI	A01N043-50, A01N043-90, A01N035-04, A01N025-30, A01N025-02; A01N043-653, A01N043-90, A01N035-04, A01N025-30, A01N025-02

OS MARPAT 133:131170  
 GI



AB The title formulation comprises 50-300 g/L azole derivative I [R1, R2 = H or (un)substituted alkyl, alkenyl, alkynyl or alkadienyl; R3 = halo or (un)substituted alkyl, alkenyl, alkynyl, alkadienyl, alkoxy or aryl; A = N or CH; n = 0,1 or 2] and, optionally, 50-500 g/L addnl. fungicide, as active ingredient. The inactive formulation ingredients are .gtoreq.700 g/L alkoxylates of an aliphatic alc., .ltoreq.100 g/L nonionic dispersant(s), 10-100 g/L anionic dispersant(s), 50-600 g/L polar aprotic organic solvent(s), 150-500 g/L nonpolar organic solvent(s), and .ltoreq.5 g/L defoamer.

ST emulsifiable conc fungicide formulation

IT Alcohols, uses

RL: MOA (Modifier or additive use); USES (Uses)  
 (C9-11, ethoxylated; nonaq. emulsifiable concentrate fungicidal formulation containing)

IT Castor oil

RL: MOA (Modifier or additive use); USES (Uses)  
 (ethoxylated, Ukanil 2507; nonaq. emulsifiable concentrate fungicidal formulation containing)

IT Fungicides  
 Pesticide formulations  
 (nonaq. emulsifiable concentrate fungicidal formulation containing)

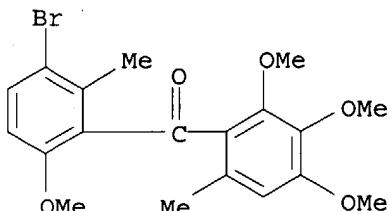
IT 26264-06-2, Calcium dodecylbenzenesulfonate  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (Rhodacal 70B; nonaq. emulsifiable concentrate fungicidal formulation containing)

IT 125116-23-6, Metconazole 214633-94-0 **220899-03-6**  
 RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (nonaq. emulsifiable concentrate fungicidal formulation containing)

IT 96-48-0, .gamma.-Butyrolactone 2687-94-7, N-Octylpyrrolidone 6837-24-7, N-Cyclohexylpyrrolidone 9016-45-9, Synperonic NP-4 26264-05-1, Atlox 3300B 140175-09-3, Atplus MBA 11-7 141615-38-5, Fluowet PL80  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (nonaq. emulsifiable concentrate fungicidal formulation containing)

IT **220899-03-6**  
 RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (nonaq. emulsifiable concentrate fungicidal formulation containing)

RN 220899-03-6 HCPLUS  
 CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 24 OF 27 HCPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:534802 HCPLUS  
 DN 133:131191  
 ED Entered STN: 04 Aug 2000  
 TI Emulsifiable concentrate containing one or more pesticides and adjuvants  
 IN Aven, Michael  
 PA American Cyanamid Co., USA  
 SO Eur. Pat. Appl., 16 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 IC ICM A01N025-30  
 ICS A01N025-02  
 CC 5-4 (Agrochemical Bioregulators)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1023833	A2	20000802	EP 2000-300667	20000128 <--
	EP 1023833	A3	20010718		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO		US 1999-466747		19991217 <--
US 6566308	B1 20030520	US 1999-466747		19991217 <--
PRAI US 1999-117707P	P 19990129	<--		
US 1999-240645	A 19990129	<--		

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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EP 1023833	ICM	A01N025-30
	ICS	A01N025-02

OS MARPAT 133:131191

AB The invention relates to a stable emulsifiable concentrate which comprises: (a) pesticide(s); (b) 150-500 g/L adjuvant(s); (c) optionally one or more organic nonpolar solvents; (d) an emulsifying surfactant system forming an oil-in-water emulsion when the formulation is added to water, which consists of nonionic surfactant(s) and anionic surfactant(s); (e) a water-miscible polar aprotic solvent or di-Me dicarboxylate(s); and (f) optionally an antifoam agent.

ST pesticide emulsion conc

IT Alcohols, uses

RL: MOA (Modifier or additive use); USES (Uses)  
(C9-11, ethoxylated, Synperonic 91/6; emulsifiable pesticide concentrate containing)

IT Carboxylic acids, uses

RL: MOA (Modifier or additive use); USES (Uses)  
(dicarboxylic, C4-6, di-Me esters; emulsifiable pesticide concentrate containing)

IT Pesticide formulations

(emulsifiable concentrate)

IT Canola oil

RL: MOA (Modifier or additive use); USES (Uses)  
(ethoxylated, Emulgin CO 3373; emulsifiable pesticide concentrate containing)

IT Castor oil

RL: MOA (Modifier or additive use); USES (Uses)  
(ethoxylated; emulsifiable pesticide concentrate containing)

IT 9016-00-6, Rhodorsil 454

RL: MOA (Modifier or additive use); USES (Uses)  
(Rhodorsil 454; emulsifiable pesticide concentrate containing)

IT 40487-42-1, Pendimethalin 110488-70-5, Dimethomorph 125116-23-6,  
Metconazole 220899-03-6

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(emulsifiable concentrate formulation of)

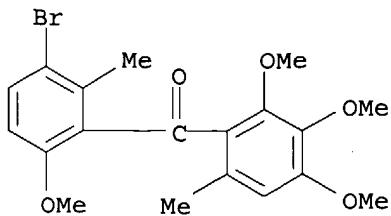
IT 1331-61-9 2687-94-7 2687-96-9, Agsol Ex12 6837-24-7 11114-17-3,  
Fluorad FC-430 26264-05-1, Atlox 3300B 26264-06-2, Rhodacal 70B  
32440-50-9, Agrimer AL25 135506-92-2, Fluowet PP 140175-09-3, Atplus  
MBA 11-7 141615-38-5, Fluowet PL80 286940-42-9, Atplus 4855B  
286940-71-4, Rhodorsil 416 286940-99-6, Phenylsulfonat CA 100  
RL: MOA (Modifier or additive use); USES (Uses)  
(emulsifiable pesticide concentrate containing)

IT 220899-03-6

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(emulsifiable concentrate formulation of)

RN 220899-03-6 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 25 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1999:819042 HCAPLUS  
 DN 132:49794  
 ED Entered STN: 30 Dec 1999  
 TI Preparation of substituted 2-hydroxybenzophenones as agrochemical fungicides  
 IN Curtze, Juergen; Morschhaeuser, Gerd; Cotter, Henry Van Tuyl  
 PA American Cyanamid Company, USA; BASF AG  
 SO Eur. Pat. Appl., 20 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 IC ICM C07C049-83  
 ICS C07C205-45; C07C069-145; A01N035-04; A01N037-02; A01N033-10  
 CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5

## FAN.CNT 1

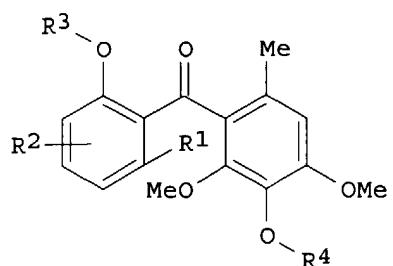
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 967196	A2	19991229	EP 1999-304860	19990622 <--
	EP 967196	A3	20011219		
	EP 967196	B1	20031022		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	AT 252537	E	20031115	AT 1999-304860	19990622 <--
PRAI	US 1998-103435	A	19980624 <--		

## CLASS

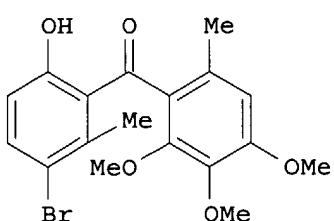
	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	EP 967196	ICM	C07C049-83
		ICS	C07C205-45; C07C069-145; A01N035-04; A01N037-02; A01N033-10

OS MARPAT 132:49794

GI



I



II

AB The title compds. [I; R1 = halo, alkyl, fluoroalkyl; R2 = H, halo, alkyl, etc.; R1R2 = CH:CHCH:CH; R3 = H, protecting group; R4 = alkyl], useful as fungicides having high systemicities, were prepared. Thus, treatment of 2-acetoxy-5-bromo-6,6'-dimethyl-2',3',4'-trimethoxybenzophenone (preparation given) with K2CO3 in MeOH/H2O afforded 76% II which showed 100% control of wheat powdery mildew at 5 ppm (4/5 day residual inoculation).

ST fungicide agrochem hydroxybenzophenone prepn; ascomycete fungicide agrochem hydroxybenzophenone prepn; Erysiphaceae fungicide agrochem hydroxybenzophenone prepn; Blumeria graminis fungicide agrochem hydroxybenzophenone prepn; Erysiphe cichoracearum fungicide agrochem hydroxybenzophenone prepn; Podosphaera leucotricha fungicide agrochem hydroxybenzophenone prepn; Uncinula necator fungicide agrochem hydroxybenzophenone prepn

IT Fungicides  
(agrochem.; preparation of substituted 2-hydroxybenzophenones as fungicides)

IT Ascomycete (Ascomycota)  
Blumeria graminis  
Erysiphaceae  
Erysiphe cichoracearum  
Podosphaera leucotricha  
Uncinula necator  
(preparation of substituted 2-hydroxybenzophenones as fungicides)

IT 252955-09-2P 252955-14-9P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation of substituted 2-hydroxybenzophenones as fungicides)

IT 252955-10-5P 252955-11-6P 252955-12-7P 252955-13-8P  
252955-15-0P 252955-16-1P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of substituted 2-hydroxybenzophenones as fungicides)

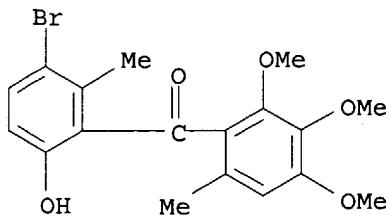
IT 567-61-3, 2-Hydroxy-6-methylbenzoic acid 1538-75-6, Pivaloyl anhydride  
3282-30-2, Pivaloyl chloride 6443-69-2, 3,4,5-Trimethoxytoluene  
6555-40-4  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of substituted 2-hydroxybenzophenones as fungicides)

IT 252955-17-2P 252955-18-3P 252955-19-4P 252955-20-7P 252955-21-8P  
252955-22-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of substituted 2-hydroxybenzophenones as fungicides)

IT 252955-10-5P 252955-12-7P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of substituted 2-hydroxybenzophenones as fungicides)

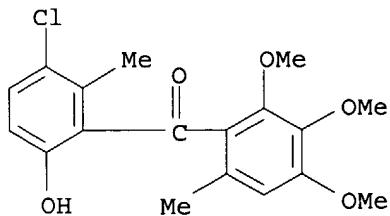
RN 252955-10-5 HCPLUS

CN Methanone, (3-bromo-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



RN 252955-12-7 HCAPLUS

CN Methanone, (3-chloro-6-hydroxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 26 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:439359 HCAPLUS

DN 131:87719

ED Entered STN: 19 Jul 1999

TI Preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides

IN Curtze, Juergen; Simon, Werner; Morschhaeuser, Gerd; Waldeck, Andreas; Stumm, Karl-Otto; Van Tuyl Cotter, Henry; Albert, Guido; Rehnig, Annerose; Reichert, Gunther

PA American Cyanamid Company, USA

SO U.S., 12 pp., Cont.-in-part of U.S. Ser. No. 914,966.  
CODEN: USXXAM

DT Patent

LA English

IC ICM C07C065-00

NCL 562474000

CC 25-17 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 5

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5922905	A	19990713	US 1997-953048	19971017 <--
	US 5945567	A	19990831	US 1997-914966	19970820 <--
	HR 980439	B1	20030831	HR 1998-980439	19980811 <--
	SK 283231	B6	20030401	SK 1998-1131	19980817 <--
	CA 2245124	AA	19990220	CA 1998-2245124	19980818 <--
	EP 897904	A1	19990224	EP 1998-306583	19980818 <--
	EP 897904	B1	20020220		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 11171818	A2	19990629	JP 1998-246511	19980818 <--
	AT 213491	E	20020315	AT 1998-306583	19980818 <--
	PT 897904	T	20020830	PT 1998-306583	19980818 <--

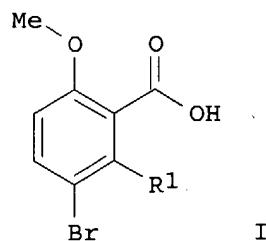
ES 2172864	T3	20021001	ES 1998-306583	19980818 <--
AU 9880839	A1	19990304	AU 1998-80839	19980819 <--
AU 751033	B2	20020808		
NZ 331457	A	20000128	NZ 1998-331457	19980819 <--
ZA 9807489	A	20000221	ZA 1998-7489	19980819 <--
EE 3962	B1	20030217	EE 1998-301	19980819 <--
CN 1217317	A	19990526	CN 1998-118632	19980820 <--
TW 382013	B	20000211	TW 1998-87113743	19980820 <--
BR 9803198	A	20000328	BR 1998-3198	19980820 <--
SG 77195	A1	20001219	SG 1998-3152	19980820 <--
BG 64048	B1	20031128	BG 1998-102704	19980820 <--
PRAI US 1997-914966	A2	19970820	<--	
US 1997-953048	A	19971017	<--	
US 1998-103887	A	19980624	<--	

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
US 5922905	ICM	C07C065-00	
	NCL	562474000	
US 5922905	ECLA	A01N035/04; C07C065/24; C07C205/45; C07C045/46; C07C045/67C; C07C045/67C1; C07C004/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21	<--
US 5945567	ECLA	A01N035/04; C07C045/46; C07C045/67C; C07C045/67C1; C07C045/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21; C07C065/24; C07C205/45	<--
EP 897904	ECLA	A01N035/04; C07C045/46; C07C045/67C; C07C045/67C1; C07C045/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21; C07C065/24; C07C205/45	<--

OS MARPAT 131:87719

GI



AB The title compds. [I; R1 = alkyl], intermediates for agricultural herbicides of benzophenone type, were prepared by bromination of 2-methoxy-6-alkyl benzoic acids in polar solvents, e.g., aliphatic alcs. or aliphatic carboxylic acids, in the presence of a weak base or a buffer system, e.g., NaOAc or Na2CO3. 5-Bromo-2-methoxy-6-methylbenzoic acid is also claimed. For example, Et 6-chloro-2-methoxybenzoate was brominated in AcOH, the 5-bromo derivative (69%) saponified and acidified, the acid (85%) chlorinated with (COCl)2 in CH2Cl2 and the acid chloride without purification condensed with 3,4,5-(MeO)3C6H2Me in CH2Cl2 in the presence of AlCl3 to give 35.4% 5-bromo-6-chloro-6'-methyl-2,2',3',4'-tetramethoxybenzophenone (m. 87-88.degree.) which had ED50 = 5 ppm and 7 ppm against wheat powdery mildew and barley powdery mildew, resp., vs. 12 and 26 ppm for quinoxyfen as a reference

ST benzoic acid bromo methoxy prepn agricultural fungicide intermediate; chloromethoxybenzoate ester bromination agricultural fungicide intermediate prepn; bromochloromethoxybenzoate prepn sapon acid

chlorination agricultural fungicide intermediate prepn; methoxytoluene condensation bromochloromethoxybenzoyl chloride agricultural fungicide intermediate prepn; bromochloromethyltetramethoxybenzophenone prepn agricultural fungicide; benzophenone methyl bromo chloro tetramethoxy prepn agricultural fungicide

IT Fungicides  
 (agrochem.; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for)

IT 6443-69-2, 3,4,5-Trimethoxytoluene  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (benzoylation with methoxy(methyl)benzoyl chloride; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 172217-12-8  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (bromination; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 2283-08-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (etherification with di-Me sulfate; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 183725-30-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (etherification with sodium methoxide; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 6161-65-5P, 2-Methoxy-6-methylbenzoic acid 220901-05-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and acid chlorination; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 50463-84-8P, 2-Methoxy-6-methylbenzoyl chloride 220901-12-2P  
 220901-25-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and benzoylation of trimethoxytoluene; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 13343-92-5P 133379-06-3P 220904-39-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and saponification; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 220898-62-4P 220898-69-1P 220898-75-9P 220898-85-1P 220898-94-2P  
**220899-03-6P**  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 6520-83-8, Ethyl 2-methoxy-6-methylbenzoate  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (saponification; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

IT 71-36-3, 1-Butanol, reactions  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (transesterification of tetramethoxybenzophenone derivative; preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

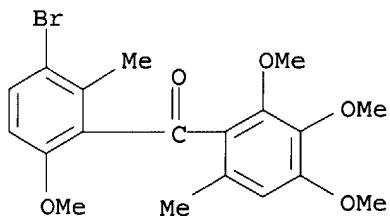
- (1) Auerbach; US 5248817 1993 HCPLUS
- (2) Auerbach; Tetrahedron Letters 1993, V34(06), P931 HCPLUS
- (3) Keller-Schierlein; Helv Chim Acta 1969, V52(1), P127 HCPLUS
- (4) Kumar; J Indian Chem Soc 1974, V51(11), P944 HCPLUS
- (5) March, J; Advanced Organic Chemistry, third edition 1985, P334
- (6) Muntwyler; Helv Chim Acta 1970, V53(6), P1544 HCPLUS
- (7) Nishiyama; Journal of Organic Chemistry 1992, V57, P407 HCPLUS

IT 220899-03-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 5-bromo-2-methoxy-6-alkyl benzoic acids as intermediates for agricultural fungicides)

RN 220899-03-6 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



L31 ANSWER 27 OF 27 HCPLUS COPYRIGHT 2004 ACS on STN

AN 1999:139752 HCPLUS

DN 130:209501

ED Entered STN: 04 Mar 1999

TI Preparation of fungicidal 2-methoxybenzophenones

IN Curtze, Juergen; Morschhaeuser, Gerd; Stumm, Karl-Otto; Albert, Guido; Reichert, Gunther; Simon, Werner; Waldeck, Andreas; Van Tuyl Cotter, Henry; Rehnig, Annerose Edith Elise

PA American Cyanamid Company, USA

SO Eur. Pat. Appl., 29 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C07C049-84

ICS C07C205-45; C07C065-21; A01N035-04; C07C045-46; C07C045-70; C07C045-68; C07C051-363; C07C067-307; C07C051-60; C07C051-347; C07C067-343; C07C069-92

CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 5

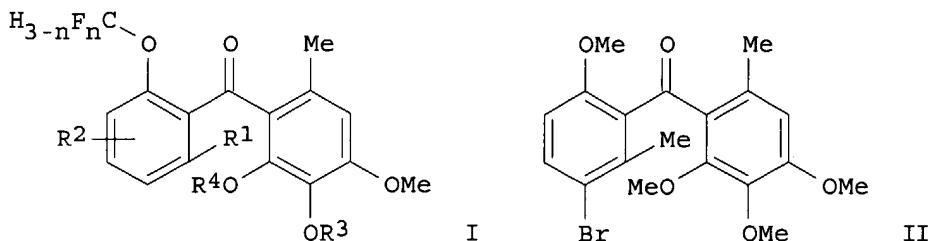
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 897904	A1	19990224	EP 1998-306583	19980818 <--
	EP 897904	B1	20020220		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 5945567	A	19990831	US 1997-914966	19970820 <--
	US 5922905	A	19990713	US 1997-953048	19971017 <--
	US 6001883	A	19991214	US 1998-103887	19980624 <--
PRAI	US 1997-914966	A	19970820	<--	

US 1997-953048 A 19971017 <--  
US 1998-103887 A 19980624 <--

CLASS	PATENT FAMILY CLASSIFICATION CODES		
CLASS	PATENT NO.	CLASS	PATENT NO.
EP 897904		ICM	C07C049-84
		ICS	C07C205-45; C07C065-21; A01N035-04; C07C045-46; C07C045-70; C07C045-68; C07C051-363; C07C067-307; C07C051-60; C07C051-347; C07C067-343; C07C069-92
EP 897904		ECLA	A01N035/04; C07C045/46; C07C045/67C; C07C045/67C1; C07C045/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21; C07C065/24; C07C205/45
US 5945567		ECLA	A01N035/04; C07C045/46; C07C045/67C; C07C045/67C1; C07C045/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21; C07C065/24; C07C205/45
US 5922905		ECLA	A01N035/04; C07C065/24; C07C205/45; C07C045/46; C07C045/67C; C07C045/67C1; C07C004/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21
US 6001883		ECLA	A01N035/04; C07C045/46; C07C045/67C; C07C045/67C1; C07C045/68; C07C045/70; C07C045/71; C07C049/84; C07C065/21; C07C065/24; C07C205/45

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AB The title compds. [I; R1 = halo, alkyl, haloalkyl; R2 = H, halo, alkyl, etc.; R1R2 = CH:CHCH:CH; R3, R4 = alkyl; n = 0-3], useful as agrochem. fungicides, were prepared. Thus, bromination of Et 6-methyl-2-methoxybenzoate followed by hydrolysis of the resulting Et 5-bromo-6-methyl-2-methoxybenzoate, and reaction of 5-bromo-6-methyl-2-methoxybenzoic acid with 3,4,5-trimethoxytoluene afforded benzophenone II which showed 64% control against wheat powdery mildew at 125 ppm (curative fungicidal activity) and 100% control against wheat powdery mildew at 5 ppm (residual fungicidal activity).

fungicide agrochem methoxybenzophenone prep; benzophenone methoxy prep  
fungicide agrochem; ascomycete Erysiphaceae fungicide agrochem  
benzophenone methoxy prep

IT Fungicides  
(agrochem.; preparation of fungicidal 2-methoxybenzophenones)

IT Ascomycete (Ascomycota)  
Erysiphaceae  
(preparation of fungicidal 2-methoxybenzophenones)

IT 220898-62-4P **220899-03-6P**  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation of fungicidal 2-methoxybenzophenones)

IT 220898-69-1P 220898-75-9P 220898-85-1P 220898-94-2P 220899-11-6P  
 220899-25-2P 220899-33-2P 220899-42-3P 220899-48-9P 220899-65-0P  
 220899-72-9P 220899-90-1P 220899-98-9P **220900-04-9P**  
**220900-12-9P** **220900-19-6P** **220900-25-4P**  
 220900-30-1P 220900-38-9P **220900-46-9P** **220900-62-9P**  
**220900-68-5P** 220900-75-4P 220900-85-6P 220900-88-9P  
**220900-94-7P** 220902-04-5P 220902-38-5P 220902-44-3P  
**220902-53-4P** 220902-60-3P 220902-62-5P 220902-63-6P  
 220902-64-7P 220902-65-8P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of fungicidal 2-methoxybenzophenones)

IT 452-70-0, 4-Fluoro-3-methylphenol 507-20-0, tert-Butyl chloride  
 2283-08-1 6443-69-2, 3,4,5-Trimethoxytoluene 6520-83-8, Ethyl 2-methoxy-6-methylbenzoate 23550-92-7 32890-94-1, 2-Fluoro-6-trifluoromethylbenzoic acid 172217-12-8 183725-30-6 220901-99-5  
 RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of fungicidal 2-methoxybenzophenones)

IT 947-62-6P 6161-65-5P, 2-Methoxy-6-methylbenzoic acid 13343-92-5P  
 50463-84-8P, 2-Methoxy-6-methylbenzoyl chloride 119692-41-0P  
 133379-06-3P 220901-05-3P 220901-12-2P 220901-25-7P 220901-37-1P  
 220901-41-7P 220901-47-3P 220901-54-2P 220901-60-0P 220901-65-5P  
 220901-72-4P 220904-39-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of fungicidal 2-methoxybenzophenones)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

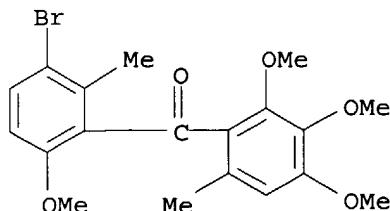
(1) American Cyanamid Co; EP 0727141 A 1996 HCPLUS  
 (2) Islam, M; J CHEM RES SYNOP V91(2), P29

IT **220899-03-6P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of fungicidal 2-methoxybenzophenones)

RN 220899-03-6 HCPLUS

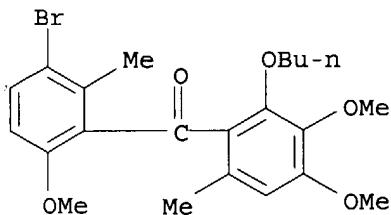
CN Methanone, (3-bromo-6-methoxy-2-methylphenyl)(2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



IT **220900-04-9P** **220900-12-9P** **220900-19-6P**  
**220900-25-4P** **220900-46-9P** **220900-62-9P**  
**220900-68-5P** **220900-94-7P** **220902-53-4P**  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of fungicidal 2-methoxybenzophenones)

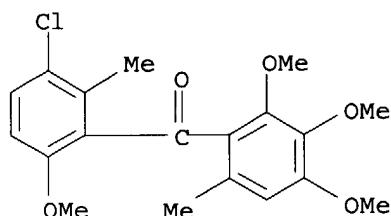
RN 220900-04-9 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2-butoxy-3,4-dimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



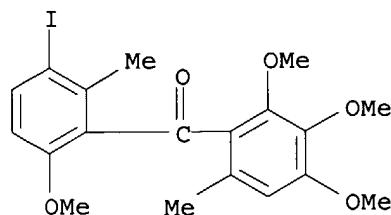
RN 220900-12-9 HCPLUS

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



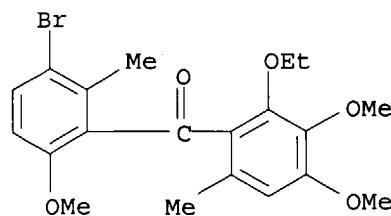
RN 220900-19-6 HCPLUS

CN Methanone, (3-iodo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



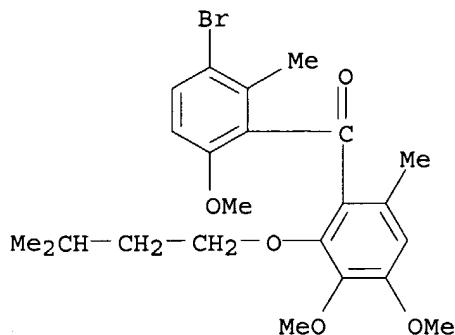
RN 220900-25-4 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) (2-ethoxy-3,4-dimethoxy-6-methylphenyl) - (9CI) (CA INDEX NAME)



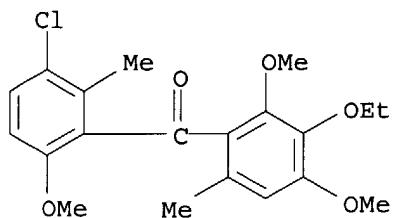
RN 220900-46-9 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) [3,4-dimethoxy-6-methyl-2-(3-methylbutoxy)phenyl]- (9CI) (CA INDEX NAME)



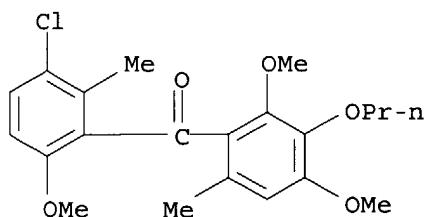
RN 220900-62-9 HCAPLUS

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (3-ethoxy-2,4-dimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



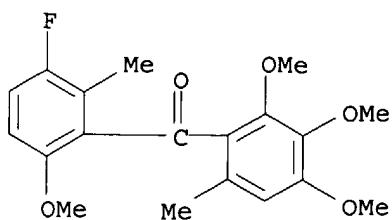
RN 220900-68-5 HCAPLUS

CN Methanone, (3-chloro-6-methoxy-2-methylphenyl) (2,4-dimethoxy-6-methyl-3-propoxypyhenyl)- (9CI) (CA INDEX NAME)



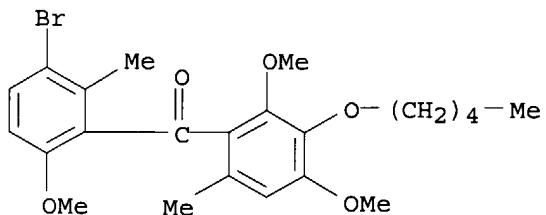
RN 220900-94-7 HCAPLUS

CN Methanone, (3-fluoro-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)- (9CI) (CA INDEX NAME)



RN 220902-53-4 HCPLUS

CN Methanone, (3-bromo-6-methoxy-2-methylphenyl) [2,4-dimethoxy-6-methyl-3-(pentyloxy)phenyl]- (9CI) (CA INDEX NAME)



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